APRIL 20, 1936 NUMBER 307

# THE UNIVERSITY OF NORTH CAROLINA RECORD

## THE ONE HUNDRED AND FORTY-SECOND SESSION

## THE COLLEGE OF ARTS AND SCIENCES

## CATALOGUE ISSUE
1935-1936

*Announcements for the Session*
*1936-1937*

THE UNIVERSITY OF NORTH CAROLINA PRESS
CHAPEL HILL, N. C.

# CALENDAR FOR 1936

### JANUARY

| S | M | T | W | T | F | S |
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### FEBRUARY

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### APRIL

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### JUNE

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### NOVEMBER

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# CALENDAR FOR 1937

### JANUARY

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### FEBRUARY

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### MARCH

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### APRIL

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### MAY

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### JUNE

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### JULY

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### AUGUST

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### SEPTEMBER

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### OCTOBER

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### NOVEMBER

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### DECEMBER

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| 26 | 27 | 28 | 29 | 30 | 31 | |

# CATALOGUE OF EVENTS

## SESSION, 1936-1937

*1936*

| | |
|---|---|
| *June 7-9* | *Sunday through Tuesday.* Commencement Exercises. |
| *June 11-July 22* | Summer Session, First Term. |
| *July 23-August 29* | Summer Session, Second Term. |
| *September 14* | *Monday,* Entrance Examinations. |
| *September 14-15* | *Monday and Tuesday.* Examinations to remove condition grades. |
| *September 17* | *Thursday.* Registration (all except Freshmen) for the fall quarter. |
| *September 18* | *Friday.* Class work for the fall quarter begins. |
| *October 12* | *Monday.* University Day. |
| *November 25* | *Wednesday.* Thanksgiving Recess begins (1:00 p.m.). |
| *November 30* | *Monday.* Thanksgiving Recess ends (8:30 a.m.). |
| *December 10-19* | *Thursday* to 1:00 p.m. *Saturday* of following week. Registration for the winter quarter. |
| *December 15-19* | *Tuesday through Saturday.* (1:00 p.m.). Examinations for the fall quarter. |
| *Dec. 19 (afternoon)-December 30* | Christmas Recess. |
| *December 31* | *Thursday.* Registration of new students. |

*1937*

| | |
|---|---|
| *January 1* | *Friday.* Class work for the winter quarter begins. |
| *March 5-13* | *Friday* to 1:00 p.m. *Saturday* of following week. Registration for the spring quarter. |
| *March 9-13* | *Tuesday through Saturday.* (1:00 p.m.). Examinations for the winter quarter. |
| *March 15* | Monday. Registration of new students. |
| *March 16* | *Tuesday.* Class work for the spring quarter begins. |
| *April 11-18* | *Sunday through Sunday.* Spring Recess. |
| *May 31-June 4* | *Monday through Friday.* Examinations for the spring quarter. |
| *June 6-8* | *Sunday through Tuesday.* Commencement Exercises. |

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# OFFICERS OF ADMINISTRATION

## THE CONSOLIDATED UNIVERSITY

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President.*
Charles Thomas Woollen, *Controller.*

## THE UNIVERSITY

### The College of Arts and Sciences

Robert Burton House, A.M., *Dean of Administration.*
Allan Wilson Hobbs, Ph.D., *Dean of the College of Arts and Sciences, Chairman* pro tempore *of the Faculty.*
Livingston Bertram Rogerson, *Assistant Controller.*
Thomas James Wilson, Jr., Ph.D., *Dean of Admissions, Registrar, and Secretary of the Faculty.*
Robert Bingham Downs, M.S., *Librarian.*
Francis Foster Bradshaw, Ph.D., *Dean of Students.*
Mrs. Marvin Hendrix Stacy, *Adviser to Women.*
Robert Allison Fetzer, B.S., M.A., *Director of Athletics.*
Julius Algernon Warren, *Treasurer and Bursar.*
Ben Husbands, A.B., *Associate Registrar.*
George Kenneth Grant Henry, Ph.D., *Assistant Registrar.*
Matt Lee Thompson, S.B. Comm., *Auditor.*

## THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs, Ph.D., *Dean*

*George Howe, Ph.D.
William Frederick Prouty, Ph.D.
John Frederick Dashiell, Ph.D.
Marion Rex Trabue, Ph.D.
Mitchell Bennett Garrett, Ph.D.
Howard Russell Huse, Ph.D.
Millard Breckenridge, Ph.B., LL.B.
John Nathaniel Couch, Ph.D.
Ralph Walton Bost, Ph.D.
Corydon Perry Spruill, B.Litt. (Oxon)
George Raleigh Coffman, Ph.D.
Karl Hartley Fussler, Ph.D.

## PHYSICAL EDUCATION FOR MEN

### The Gymnasium

Robert Baker Lawson, M.D., *Director.*
James Acra Hackney, Jr., *Secretary.*
Emery Elisha Raper, *Assistant.*

## PHYSICAL EDUCATION FOR WOMEN

Gladys Angel Beard, M.A., *Director.*

* Absent on leave, 1935-1936.

## THE INFIRMARY

WALTER REECE BERRYHILL, A.B., M.D., *University Physician.*
EDWARD MCGOWAN HEDGPETH, A.B., M.D., *Assistant University Physician.*
FAY CHOATE, *Registered Nurse.*
MARGARET MCKEE, *Registered Nurse.*
CARTER RIDDLE, *Registered Nurse.*
RUTH BARNES, *Technician.*

## THE YOUNG MEN'S CHRISTIAN ASSOCIATION

HARRY FULCHER COMER, M.A., *General Secretary.*
EDWIN SIDNEY LANIER, *Self-Help Secretary.*
HELEN LOUISE HODGES, A.B., *Office Secretary.*

# GENERAL INFORMATION

## THE UNIVERSITY

### FOUNDATION AND GOVERNMENT

The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the university was opened in January, 1795.

By the Constitution adopted in 1868 the General Assembly has "power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises and endowments thereof in anywise granted to or conferred upon the trustees of said University; and the General Assembly may make such provisions, laws and regulations, from time to time, as may be necessary and expedient for the maintenance and management of said University." The Governor of the State is *ex officio* President of the Board of Trustees.

The same Constitution, in connection with "Benefits of the University," further states: The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also, that all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University.

### ORGANIZATION AND DEGREES

The University is organized into a General College (which gives the general academic work of the first two years), a College of Arts and Sciences, and eight schools which have jurisdiction over degrees as shown below.

The College of Arts and Sciences

Bachelor of Arts
Bachelor of Arts in Journalism
Bachelor of Science in Chemistry
Bachelor of Science in Geology
Bachelor of Science in Physics
Bachelor of Arts and Laws (with the School of Law)
Bachelor of Science in Medicine (with the School of Medicine)

THE SCHOOL OF COMMERCE

Bachelor of Science in Commerce
Bachelor of Science in Commerce and Laws (with the School of Law)

THE SCHOOL OF ENGINEERING

Bachelor of Science in Electrical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Chemical Engineering

THE SCHOOL OF PUBLIC ADMINISTRATION

Bachelor of Science in Public Administration

THE GRADUATE SCHOOL

MASTER OF ARTS
MASTER OF SCIENCE
DOCTOR OF PHILOSOPHY

THE SCHOOL OF LAW

Bachelor of Laws
Doctor of Law
Bachelor of Arts and Laws (see above)
Bachelor of Science in Commerce and Laws (see above)

THE SCHOOL OF MEDICINE

Bachelor of Science in Medicine (see above)

THE SCHOOL OF PHARMACY

Bachelor of Science in Pharmacy

THE SCHOOL OF LIBRARY SCIENCE

Bachelor of Arts in Library Science

In the Summer Session are offered many courses for which regular University credit is allowed, including special courses designed primarily for the teachers of the State. Practically all the work offered is of collegiate grade and may be counted towards some degree from the University.

There is also a Division of Extension through which the services of the University Faculty and certain material equipment of the University are made available to the people of the State generally.

## THE GENERAL FACULTY OF THE UNIVERSITY

By action of the Trustees of the University the General Faculty includes all members of the University's teaching force above the rank of Instructor and all general administrative officers of the institution. In the President and the General Faculty is vested final authority

(under the Trustees) over all matters of University policy and activity. Under the General Faculty the College and the Schools have separate Faculties and Administrative Boards, which have final authority over matters pertaining solely to such College or Schools.

## SCHOLARSHIPS AND OTHER FINANCIAL ASSISTANCE

There are certain endowed scholarships available for students who can show good attainments in scholarship along with definite financial need. Information in regard to them can be secured by writing to Dean R. B. House. See pages 24-26.

The University has a sum of money which may be loaned to worthy students who can show definite need. Information can be secured from Mr. J. A. Williams. See pages 27-31.

There are a certain number of positions involving various kinds of work which enable some students to earn a part of their expenses. Information about this can be secured from Mr. Edwin S. Lanier. See page 31.

Students should not come to the University unless they are able to pay their bills immediately upon registration. All arrangements about payment of bills must be made in advance of registration, whether by way of loans, scholarships, acceptance of notes, or in any other manner.

## THE DIVISIONS

For the purpose of better educational policy in regard to the student's choice of courses, sequences of courses, etc., the faculty is divided into three Divisions, the Division of the Humanities, the Division of the Social Sciences, and the Division of the Natural Sciences. The work of some Departments will be found in more than one Division and for convenience that of others may from time to time be shifted from one to another or be placed in more than one.

The student should make up his mind by the end of his freshman year if possible what subject he wishes to make his major. In his sophomore year he should take whatever work he can looking towards his major. In his junior year he enters one of the Divisions and his work is directed by the requirements of the Division and by any special needs he may have in conference with the Head of the Division, or by a person designated for this purpose. Students taking the A.B., LL.B. course do not fall in any Division but are under the direct charge of the Dean of the College of Arts and Sciences; those taking the S.B. in Medicine curriculum are in the Division of the Natural Sciences.

# THE DIVISION OF ADMISSIONS AND RECORDS

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President.*
Robert Burton House, A.M., *Dean of Administration.*
Thomas James Wilson, Jr., Ph.D., *Dean.*

## *THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs, Ph.D. Dudley deWitt Carroll, M.A.
Ralph Walton Bost, Ph.D. Francis Foster Bradshaw, Ph.D.
William Jasper Miller, S.M.E.E. Robert Burton House, A.M.
Ben Husbands, A.B., *Secretary.*

## GENERAL STATEMENT

Since the conclusion of the World War the University has experienced such a growth both in numbers and in breadth of policy and influence that it has been found necessary in many ways to revise and modify previously existing modes of action. From this influence came in March, 1920, the proposals of the University Advisory Committee with reference to the more definite organization of separate schools or faculties and the establishment of administrative boards for these separate schools. The proposals were adopted.

After about ten years it was generally felt that developments subsequent to the above action had led to practices and procedures not in strict accord with the plans adopted in 1920. After full investigation and discussion by the Advisory Committee and the Administrative Officers of the University new regulations designed to make effective the original legislation of 1920 were proposed to the General Faculty and were adopted.

By these regulations the Special Faculties of Law, Medicine, Pharmacy, Engineering, and of the Graduate School and the Undergraduate Faculty were definitely provided and their jurisdictions, powers, and duties were defined. At the same time were settled the status, powers, and duties of the Administrative Boards of all schools and divisions. See Catalogue for 1930-1931, page 30 and following. Schools organized subsequently, such as Library Science and Public Administration, have similar arrangements.

The division named at the head of this section was organized in 1931 for the purposes indicated by its title in order still further to organize and make more effective existing agencies for the promotion of the good of the University. This division was at first appointed

* In matters involving any of the schools of Law, Medicine, Pharmacy, the Graduate School, the School of Public Administration, or the School of Library Science the Dean or Director of the school concerned will sit as an active member of the Administrative Board.

(and with a somewhat different personnel) as the Committee on Admissions, with instructions to investigate and discuss conditions along this line and to make a report to the President.

Following the formal report made on the deliberations and recommendations of the above committee the work was felt to be of enough importance to justify the organization of a division with a dean and administrative board and with a province embracing not only matters of admissions but those of general administration of regulations also. In the matter of admissions it is expected that the Administrative Board of this division will at its regular and special meetings continually keep a live and constructive interest in the establishment of policies and plans for improving the quality of our student body.

# THE DIVISION OF STUDENT WELFARE

## GENERAL STATEMENT

The Division of Student Welfare was established to coördinate and promote the work of all University agencies and organizations affecting the welfare of students. Its work is understood to embrace all University relationships with students other than formal instruction. These relationships all have educational significance and are recognized as an integral part of the educational program of the University.

In recent years of University growth many agencies have come into existence to promote in various ways the wholesome growth of students and student life. To relate most effectively the respective functions of such agencies and to focus the entire guidance resources of the institution on the particular needs of students both as individuals and as groups is the responsibility of this division through its Administrative Board.

## *THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs
Mrs. Marvin Hendrix Stacy
Dudley deWitt Carroll
Robert Burton House
William Morton Dey
William Stanley Bernard
English Bagby
Harry Fulcher Comer
Walter Reece Berryhill
Robert Baker Lawson
Robert Allison Fetzer
J. Maryon Saunders
Livingston Bertram Rogerson
Carl Snavely
Edward McGowan Hedgpeth
Harper Barnes
Oliver Kelly Cornwell
Harold Diedrich Meyer
Corydon Perry Spruill
Marion Rex Trabue
Edwin Sidney Lanier
Francis Foster Bradshaw, *Chairman*

Because of the intimate relationship of this division to student life, there is an Advisory Board composed of students appointed annually by the President of the University on the joint nomination of the President of the Student Body and the Chairman of the Board. The following students were appointed for 1935-1936:

Don Kennedy McKee
Frank Willingham
**Francis Hilliard Fairley
Philip Gibbon Hammer
Charles Aycock Poe
Hubert Hinton Rand
Luther Columbus Bruce
Jane Amelia Ross
Billy Francis Yandell

**Rufus Adolphus Pool, *Chairman*

* The Presdient and the Dean of Admissions are *ex officio* members of this Administrative Board.

** Upon the retirement in February, 1936, of Mr. Pool from the Advisory Board, Mr. Fairley was made Chairman.

# STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. These functions are exercised by the Student Council.

## THE STUDENT COUNCIL, 1935-1936

*Rufus Adolphus (Jack) Pool, Chairman, *ex officio*
Thomas Moore Evins, Vice-president
John Johnston Parker, Jr., Secretary

Clyde Edward Mullis
James Brown Craighill
Ernest Marvin Allen
John David Smith
Francis Irving Anderson
Melvin Bowman Smith
*Francis Hilliard Fairley

The Student Council is composed of nine members, as follows: Representatives of the three upper academic classes, one representative from each of the professional schools of Law, Medicine, and Pharmacy, one representative elected by the other seven members of the Council, and the President of the Student Body. The member elected on the Council must be chosen from among those who have served on the Council before. The President of the Student Body is *ex officio* Chairman of the Council.

Student government, in so far as it is disciplinary, is based upon the honor principle. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The Student Council is the executive expression of the honor principle. It is the concrete expression of the moral University. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses demanding withdrawal may be mentioned drunkenness, cheating, and gambling.

## THE COLLEGE YEAR

The college year is divided into fall, winter, and spring quarters of approximately twelve weeks each, and a summer session divided

* Upon the retirement in February, 1936, of Mr. Pool from the Council, Mr. Francis Fairley was made Chairman.

into two terms of about six weeks each. There is a Thanksgiving recess of three days, a Christmas recess of approximately two weeks, and a spring recess of about six days.

## RELIGIOUS INFLUENCES

Through the coöperation of all concerned, religious influences of unusually effective character surround the University student. Chapel exercises are held in Memorial Hall at ten-thirty o'clock. The Young Men's Christian Association, to which the University makes annual contributions, is of great value in the life of the campus.

The larger denominations of the State have erected at Chapel Hill modern and adequate church plants. The Chapel Hill churches are manned by an effective and coöperative group of pastors, are all located in close proximity to the campus, and play a very large and genuine part in the life of the University.

## DISCIPLINE

The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct. See also under the heading of Student Government.

## PHYSICAL EDUCATION

Hearty encouragement is given to athletic sports and to all kinds of physical culture.

In addition to inter-collegiate athletics the University fosters an unusually extensive program of intra-mural sports, involving over half the undergraduates in a wide variety of games. There are contests in basketball, tag-football, indoor and outdoor baseball, tennis, soccer, quoits, rifleshooting, boxing, wrestling, fencing, and track. Intra-mural teams offer every interested student opportunity for participation in some interesting and healthful form of competition with his fellows, for learning team work and good sportsmanship.

Physical education is required of all freshmen in the afternoons twice each week for the year. A course in hygiene is required of all freshmen once each week for the year.

A thorough physical examination is given to students at the time of entrance. All students are classified on the basis of the examination and effort is made to adapt the program to the individual's particular needs. Particular attention is given to various remediable defects and individual programs are built with the idea of improving or correcting the existing condition.

It is hoped that all students can develop sufficient skill in various recreational activities in order that continued participation in the activity will result.

A well rounded seasonal program of intramural athletics is carried on throughout the year with the idea of supplying recreational opportunity to all members of the student body. Complete schedules are played in a variety of individual and team activities, including tennis, golf, fencing, table tennis, bowling, boxing, wrestling, track and field, quoits, tag-football, indoor and outdoor baseball, basketball, and soccer.

The program of intercollegiate athletics includes a great variety of seasonal competitive games with the idea of promoting maximum participation by members of the student body.

More advanced courses in Physical education are offered to upper classmen who plan to become athletic directors or coaches.

The physical education of women students is under the charge of Mrs. Gladys Angel Beard as Director and a group of administrative officers as a board. Each woman student is carefully examined and tested for the purpose of discovering defects and correcting them. Arrangement for this examination is made when the student registers. Vigorous exercise and recreation are provided by tennis, archery, dancing, track work, basketball, and hockey; and inter-class competition is encouraged.

## MEDICAL ATTENTION

In order to provide proper attention for the student during sickness the University employs two full time physicians and maintains a well appointed infirmary. The infirmary is equipped with all necessary conveniences and comforts, and with a modern X-ray unit and laboratory for diagnostic purposes under the direction of a full time technician. It is under the immediate supervision of the University Physician, and is provided with three experienced nurses. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made. But should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon), recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such services.

# THE UNIVERSITY LIBRARY

Robert Bingham Downs, A.B., M.S., *Librarian*

The University Library contained on November 1, 1935, 285,568 volumes. It is housed in a new library building completed in July, 1929. The seating capacity is one thousand readers, the present book capacity is approximately 300,000 volumes. In addition to the resources of the general reference rooms, the Library has a collection of 51,213 bound periodicals. Three thousand four hundred and sixty-one current periodicals, newspapers, and transactions of various societies, continuing and supplementing the bound sets, are subscribed for or secured through exchange annually.

Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given to new students at the beginning of each year.

Subscribers to the Library are the students and the members of the faculty. Other persons who desire to use the Library may become subscribers upon payment of the regular library fee of $4.00 a year, $1.00 for three months, or 50 cents a month. Persons who are not subscribers may not borrow books on a subscriber's name.

A student who owes the Library for fines or lost books will not receive academic credit until the indebtedness has been settled.

# UNIVERSITY ORGANIZATIONS

Below are listed the various organizations in the University in which students find opportunities of advantage outside their regular academic or professional work. Those who are interested are urged to investigate these organizations.

## THE SENATE OF THE DIALECTIC LITERARY SOCIETY AND THE GENERAL ASSEMBLY OF THE PHILANTHROPIC LITERARY SOCIETY

The Dialectic and the Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University and they have shown remarkable power in developing character, as well as in training the intellect. They offer facilities for practice in debate, oratory, and essay writing; and their members become familiar with parliamentary law and procedure.

In 1919 the Philanthropic Society was reorganized on the plan of the General Assembly of the State and changed its name accordingly. Similarly in 1924 the Dialectic Society after reorganization became the Dialectic Senate.

## THE ELISHA MITCHELL SCIENTIFIC SOCIETY

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the Society and of the North Carolina Academy of Science, is issued quarterly. The objects of the society are to encourage scientific research and to record the results of such work, especially those that pertain to the natural history of the State. It is now in its fifty-second year. The volumes already issued contain more than six thousand pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals many thousands of books and pamphlets have been collected, all of which are arranged in the University Library. The membership is at present restricted to the faculty and students of the University, and members of the staff of the State Department of Conservation and Development.

## THE PHILOLOGICAL CLUB

The Philological Club meets in the lounge of the Graduate Club on the first Tuesday evening of each month during the college year. Its membership consists of the faculty and advanced students in the language and literature departments of the University. The objects of the club are to stimulate original investigation in language and

literature and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed.

## DER DEUTSCHE VEREIN

The Verein was established for the purpose of maintaining and stimulating among the officers and students of the University interest in German literature and music, life and customs, progress and achievements. The aim is to employ the German language as much as possible. The effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language.

## LE CERCLE FRANCAIS

Le Cercle Français holds bi-monthly meetings at which topics of general interest pertaining to French literature and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, and to provide its members with an opportunity to hear idiomatic French spoken and to use the language with more facility. All officers and students of the University interested in the study of French are eligible for membership.

## EL CLUB ESPAÑOL

The membership of *El Club Español* consists of students of the University who are interested in Spanish. The object of the club is to stimulate interest in the language, literature, and customs of Spain, and to give its members an opportunity to hear and speak Spanish.

## THE NORTH CAROLINA CLUB

The North Carolina Club was organized September 25, 1914, for the purpose of providing an open forum to review, interpret, and discuss the economic, social, and civic problems of the State. It is an organization composed of students and faculty members who are bent upon accurate, intimate acquaintance with North Carolina. The Club meets for an hour upon fortnightly Monday evenings for the reading and discussion of a paper prepared by a member.

## AMERICAN SOCIETY OF CIVIL ENGINEERS

### The William Cain Student Chapter

The purposes of the Chapter are to afford the student in Civil Engineering practice in the preparation and presentation of engineering papers, to give a working knowledge of parliamentary law, to develop the ability to speak extemporaneously, and to provide a contact between students, faculty, and visiting engineers.

Membership is open to all students of the Division of Civil Engineering.

## AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

### The University of North Carolina Branch

The aims of the Branch are to stimulate interest in modern problems in the various fields of electrical engineering, and to acquaint the student with the profession he is preparing to enter by means of papers presented by student members and practising engineers.

## AMERICAN SOCIETY OF MECHANICAL ENGINEERS

### The University of North Carolina Branch

The object of the Branch is to assist the student, while receiving training in preparation to practise the profession of mechanical engineering, to gain a proper perspective of engineering work by enabling him to become acquainted with the personnel and problems of those actively engaged in this profession.

## AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

### The University of North Carolina Student Chapter

The Chapter holds fortnightly meetings at which problems of interest to the chemical engineer are discussed by guest speakers. The Chapter sponsors Chemical Engineers' Day on which occasion a series of seminars and public lectures is presented by distinguished visiting chemical engineers. Membership is open to all students interested in chemical engineering.

## MUSICAL ORGANIZATIONS

The Department of Music extends its facilities with respect to both faculty and equipment to the support of the musical organizations. In addition a collection of records, scores, books on music, together with phonographs for audition purposes are accessible to all students of the University during certain hours daily; and provision is made for the reception of the weekly broadcasts of symphonies, operas, and other important programs.

The Hill Music Auditorium, seating eight hundred people, with its four manual concert organ, is the home of recitals and concerts by faculty members, students in the department of music, and visiting artists. The Vesper Organ Recitals are given on Sunday afternoons throughout the academic year by Professor Jan Philip Schinhan.

### The University Glee Clubs

These organizations are open to all students of the University. The work in the Men's Glee Club and in the Women's Glee Club is carried on as a part of the curriculum in Music. Each group devotes its time to the study and performance of appropriate vocal literature and the

schedule is so arranged that the two groups may join forces for the interpretation of compositions for a mixed chorus. Provision is made for frequent concert appearances of these organizations.

### The Chapel Hill Choral Club

The Chapel Hill Choral Club, an informal organization of students, faculty, and townspeople, gives two or three performances each year. In recent years such works as Bach's Christmas Oratorio and Schubert's Mass in E Flat have been given. Rehearsals are held each Monday evening.

### The University Symphony Orchestra

The personnel of this organization includes students, faculty, and townspeople. The rehearsals are devoted to the study of standard symphonic literature and several concerts with instrumental and vocal soloists as assisting artists are given during the year. For details concerning credit in orchestra for regularly enrolled students, see the announcement of the Music Department.

### The University Band

The band is organized as a regular course in the Music Department, devoted to the study and performance of the standard musical literature for this type of ensemble group. In addition, especially during the fall quarter, the band coöperates with the Athletic Association in providing music for the football games, and usually makes one or more trips with the team. During the winter and spring quarters, as conditions permit, concert tours throughout the state are arranged.

### Alpha Rho Chapter of Phi Mu Alpha (Sinfonia)

This chapter of the national honorary musical fraternity is composed of students of music, and such other students and faculty members as reveal particular interest in the participation in musical performance. The members of the chapter act as hosts for all musical events occurring in Hill Music Hall throughout the year. In order to create a fund from which scholarships for worthy students of music may accrue, the Alpha Rho chapter of Sinfonia sponsors each year a concert by a world-famous musical artist.

## THE CAROLINA PLAYMAKERS

The Carolina Playmakers is the University dramatic organization.

Its purpose, as set down in the Charter, is: "First, to promote and encourage dramatic art, especially by the production and publishing of plays; Second, to serve as an experimental theatre for the development of plays representative of the traditions and present-day life of the people; Third, to extend its influences in the estab-

lishment of a native theater in other communities." It is incorporated under the laws of the State of North Carolina as a non-stock corporation.

*The Carolina Folk-Plays* and other plays of American locale are written and produced in the University courses in Dramatic Composition and Production, members of the community of Chapel Hill —students, faculty, and townspeople—assisting. Those who contribute to the writing or producing of the plays constitute the membership of the organization. Any student may participate in any of the various departments of the work.

The Playmakers now have their own theatre building on the campus, fully equipped for all manner of experimentation and production. Besides this, their Forest Theatre furnishes an ideal setting for out-of-door productions. They have an adequate workshop for the construction and painting of scenery and for the making of costumes.

The large stage in the University auditorium, Memorial Hall, provides ample facilities for traveling professional companies.

## YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right and wholesome Christian living. In this spirit it endeavors to extend a helping and active influence to every sphere of campus activity.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine, and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service and personal growth.

The Association has very greatly enlarged its program and staff in the past five years, keeping step with progress in all other departments of the University, and with the increase in student enrollment.

## YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Young Women's Christian Association is a voluntary organization for women students in the University. It is a religious, social, and welfare agency to give opportunity for the individual's development in these extra-curricular areas and to provide specific service to women students. This Association was organized early in 1936 and is affiliated with the Student Young Women's Christian Association movement in the United States. With their duly elected staff of officers and advisory board, the Y. W. C. A. has its regular Cabinet meetings weekly and a public program fortnightly, in addition to a number of committees working on various service projects. All women students in the University are eligible to membership.

# EXPENSES

**The University reserves the right to make, with the approval of the proper authorities, changes in any fees at any time.**

### Tuition and Other Fees for Each Quarter

Each student whose *bona fide* residence has not been established in North Carolina for at least the six months immediately prior to his first registration in the University must pay an extra fee of $33.34 for each fall, winter, or spring quarter he spends in residence. The residence of a minor is that of his parents or guardian. The residence of an adult remains with his parents unless he shall have independently set up his own.

*Bona fide* residence means that the student is not in North Carolina primarily to attend the University and that his status as a resident has not been set up merely as a technical bar to the extra charge. Mere ownership of property or payment of taxes apart from residence does not qualify one as a resident; nor may a student qualify by living in North Carolina the six months immediately prior to his first registration unless he continues so to live during the whole period of his stay at the University.

Students are presumed to know their correct residence status and to state the facts concerning it truthfully on their registration blanks. Students in doubt should appeal their cases in writing to the Dean of Administration, preferably in advance of registration. Students who misrepresent the facts of their residence status for the purpose of defrauding the University will be dealt with as are all other violators of the honor code.

| College of Liberal Arts: | Residents of No C. |
|---|---|
| Tuition | $25.00 |
| *Matriculation | 14.50 |
| **Student Publications | 2.30 |
| Laundry Deposit | 8.50 |
| Student Union fee | 1.00 |
| Student Entertainment fee | 1.00 |
| Total for each quarter | $52.30 |

Delayed Registration: The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. No appeal from either attendance probation or the late registration charge of five dollars will be granted, unless

* This fee includes fee for physical education, the library fee, the fee for infirmary service, and the fee for debates.

** This fee includes the following items: Daily Tar Heel $1.28, Yackety Yack .54, Buccaneer .23, and Carolina Magazine .25.

the delay is due to circumstances clearly beyond the student's control. Such an appeal must be made in writing to the Dean of Administration, must show clearly good and sufficient justification for the delay in registering, and must bear the approval of the Dean of division of the University in which the appellant is enrolled.

LAUNDRY DEPOSIT: Students will be required to send their washing to the University Laundry for which a deposit will be collected at the time of registration.

LABORATORY FEES: Each student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are shown in connection with the descriptions of the courses.

TRANSCRIPTS OF RECORD: One transcript will be furnished without charge. Additional transcripts will be furnished only upon payment of $1.00 for each copy.

GRADUATION FEE: The graduation fee is $5.00 payable when application for the degree is made.

### Dormitory Accommodations for Men

Accommodations for approximately fourteen hundred students are available in the University dormitories.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillows, bed linen (for single beds), blankets, and towels.

Room rent ranges from $5.25 to $10.00 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat, and service. Rooms are leased for the scholastic year. See p. 35 for assignment of rooms.

### Residence for Women

The Cornelia Phillips Spencer Building is the main dormitory for women. There is also a special dormitory for the use of graduate women. Women not living in their own homes are required to reside in a dormitory unless permission to live elsewhere is granted by the Adviser to Women, Mrs. M. H. Stacy. Ordinarily such permission is granted in exceptional cases only.

Rooms in the dormitory are rented upon the basis of the full session; but the bill is payable in two installments, September 1 and February 1. The rooms are completely furnished. Students will provide, however, pillows, bed linen (for single beds), blankets, and towels. All persons living in the dormitory are required to board there also.

The cost of room and board for the session is $283.00 if the student shares a double room, or $328.00 if the student occupies a single room. Details of the payments to be made for room and board may be found in the Handbook for Women Students or by correspondence with Mrs. M. H. Stacy.

# PECUNIARY AID

## FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux). The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Graham Kenan Fellowship in Philosophy. (Established in 1921 by Mrs. Graham Kenan). A fellowship supported by the income from an endowment of twenty-five thousand dollars, in memory of an alumnus and trustee of the University. This fellowship is awarded annually by Professor Henry Horace Williams.

The Moore Scholarships. (Established in 1881). Bartholomew Figures Moore, of Raleigh, bequeathed $5,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ruffin Smith Scholarships. (Established in 1885). Miss Mary Ruffin Smith bequeathed to the University in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham County of 1,460 acres, known as Jones' Grove. The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

The Mary Ann Smith Scholarships. (Established in 1891). Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Cameron Scholarships. (Established in 1892). The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $75 each.

The Speight Scholarships. (Established in 1892). The late Mrs. Mary Shepherd Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of professors.

The Wood Scholarship. (Established in 1892). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $75.

The Dialectic and Philanthropic Literary Societies' Scholarships. (Established in 1893). The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of $75 each, recipients of which shall give assistance in the Library.

THE WEIL SCHOLARSHIP. (Established in 1898). A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $75.

THE ARMFIELD SCHOLARSHIPS. (Established in 1901 and 1904). These scholarships were founded by the generosity of the late Mr. Eugene M. Armfield, of High Point, N. C., a member of the class of 1888.

THE KENNETH MURCHISON SCHOLARSHIPS. (Established in 1904). These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and the late Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

THE DONALD FAIRFAX RAY SCHOLARSHIP. (Established in 1919). Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

THE HOLT SCHOLARSHIPS. (Established in 1920). Four scholarships are maintained by the income from the Holt Loan Fund, established by Mr. Lawrence S. Holt, Jr. They are awarded by the Committee on the Holt Fund, to a member of each of the four classes in the Academic Department. Applications are considered after the opening of the University in the fall.

The ALUMNI SCHOLARSHIPS. These scholarships have been established by the gifts of Alumni, and they vary in stipends according to the funds in hand.

THE R. H. LEWIS SCHOLARSHIPS. Four scholarships, endowed by the University Gymnasium Association, and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

THE MRS. AUGUSTUS H. JONES SCHOLARSHIP was created by a gift of two thousand dollars from Mrs. James H. Parker, of New York City, the income to be used for one scholarship. The recipient of this scholarship is to be designated by Mrs. James H. Parker during her life and thereafter upon the recommendation of the New York Chapter of the United Daughters of the Confederacy. Failing this recommendation from either source, appointment is to be made by the President of the University, preference being given first to relations of the late Dr. James H. Parker, of New York, and second to relations of the donor.

THE GEORGE NEWBY TOMS SCHOLARSHIPS. (Established 1926). Mr. C. W. Toms, in memory of his son, George Newby Toms, has granted the income from a fund of $5,000 as scholarships to worthy students, preference being given to students from Durham and Perquimans counties in North Carolina.

THE GENERAL ROBERT RANSOM SCHOLARSHIP. This scholarship to the value of $200 is awarded each year to a lineal descendant of a Confederate Veteran. It is awarded and controlled by the United Daughters of the Confederacy in North Carolina.

THE JEFFERSON DAVIS ESSAY SCHOLARSHIP. Awarded each year by the United Daughters of the Confederacy in North Carolina to the high school graduate who writes the best essay on Jefferson Davis. Value $200.

WILLIAM BLOUNT RODMAN SCHOLARSHIPS. Two scholarships assigned to students at the University from the memorial trust fund created by Colonel W. B. Rodman in memory of his father, William Blount Rodman. They are assigned by the State Superintendent of Public Instruction, Trustee of the fund.

THE DANIEL G. FOWLE SCHOLARSHIP. One scholarship, founded in 1928 by Mrs. Walter F. Stearns (Mary H. Fowle) in memory of her father, Governor Daniel G. Fowle. Mrs. Stearns reserves the right to award the scholarship to a member of her own family; otherwise it will be awarded by the Superintendent of the Raleigh Schools and the Principal of the Raleigh High School to one Raleigh student on the basis of merit, character, and scholarship. Value annually $100.

THE GRAIL SCHOLARSHIP. One scholarship is maintained by the interest from the Grail Loan Fund, and is awarded each fall to that member of the entering class who as a senior in a North Carolina high school made the highest score on the state-wide examination conducted by the North Carolina College Conference.

THE MARY K. BROWN MEMORIAL SCHOLARSHIP. (Established in 1931). A fund was established by Mrs. James M. Brown in memory of her daughter, who served with unusual devotion as Secretary of the School of Commerce of the University. The Scholarship is awarded to a worthy student who is dependent upon his own efforts to secure an education.

None of these scholarships is open to students in the Schools of Law, Medicine, Pharmacy, and Library Science. For scholarships open to students in these Schools, please see the special bulletins of the schools.

This list does not include certain annual contributions for scholarships, which are not on an endowment basis.

All applications for scholarships must be filed in the office of the Dean of Administration on or before April fifteenth, and must be in the regular form prescribed by the University. Blank forms are supplied on application to Dean R. B. House.

## FREE TUITION

Free tuition is given to indigent residents of North Carolina whc are also under bodily infirmity.

## LOAN FUNDS

The Deems Fund. (Established in 1879). A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University."

The Martin Fund. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1908-1909.

The Hogue Fund. A fund of $4,000 has been established by the Rev. R. W. Hogue, of Baltimore, the income from which is to be loaned to worthy students in the University.

The Hewitt Fund. A fund of $18,700 was established in 1916 by the bequest of Mr. Joseph Henry Hewitt, of Princess Anne County, Virginia. Only the income from this fund can be used for loans to "needy and deserving students" of the University. This fund became available during the session of 1919-1920.

The Holt Fund. A fund of $10,000 has been established by Mr. Lawrence S. Holt, Jr., of Burlington. The principal of this fund is to be loaned to "worthy and needy students of the University." The income from this fund is to be used in establishing four scholarships in the University. It became available during the session of 1920-1921.

The Victor S. Bryant Fund. A fund of $7,500 has been established by the bequest of Mr. Victor S. Bryant, of Durham. The principal and the interest of this fund can be used for loans to "worthy and needy young men" at the University. This fund became available during the session of 1920-1921.

The Masonic Loan Fund. A fund of $1,250 has been established by the Grand Lodge of Masons, the Grand Chapter of Royal Arch Masons, and the Grand Commandery of Knights Templar of North Carolina, for the purpose of "assisting worthy boys and girls to secure an education." The principal of this fund is loaned, and the interest is added thereto. The fund became available in the fall of 1922, and has since been increased.

The Seely Fund. A fund of $1,000 has been established by Mr. F. L. Seely, of Asheville, the principal of which is to be loaned to worthy and needy students, and the income therefrom to be added to the principal. This fund became available during the fall of 1922.

The E. S. BLACKWOOD MEMORIAL LOAN FUND, created by bequest of Miss Katherine B. Blackwood, of New York City. This fund consists of $10,000 "to be used as a loan fund for needy students." This fund is administered in the same manner as the Deems fund.

THE A. B. ANDREWS LOAN FUND. In May, 1925, the five children of the late Colonel A. B. Andrews (William J. Andrews, class of 1891; Alexander B. Andrews, class of 1893; Mrs. W. M. Marks; John H. Andrews, class of 1897, and Graham H. Andrews, class of 1903) established a fund of $2,500 of which the principal and interest are to be loaned to worthy students. This fund has been increased to $4,500 through the subsequent gifts from Mr. Alexander B. Andrews, of Raleigh, N. C. The A. B. Andrews Loan Fund is administered as are other loan funds from the University and is established as a memorial to Colonel A. B. Andrews, a noted railroad builder in North Carolina and a Trustee of the University. It is requested by the donors that assistance from this fund be rendered first to students from those counties of North Carolina in which Colonel Andrews built railroads and second to those counties through which lines of the S. A. L., Norfolk-Southern, and Southern railway systems run.

THE J. E. LEAR FUND. This fund of $5,244 became available in 1924 as a fund upon which students in the School of Engineering, especially students in electrical engineering, would have first claim. The fund was the result of installation work done by the senior class in electrical engineering under the supervision of Professor J. E. Lear.

THE JOSEPH E. POGUE LOAN FUND. The fund of $1,000 was presented to the University in April, 1930, by Mrs. Joseph E. Pogue as a memorial to her husband, the late Mr. Joseph E. Pogue, the fund to be known as the Joseph E. Pogue Loan Fund. The principal and interest are to be loaned to deserving students.

THE EDMONDS LOAN FUND. The fund of a little over $800 has been set up by the Class of 1910 as a memorial to W. R. Edmonds, a member of that class.

GRAIL LOAN FUND. In June, 1930, the Order of the Grail, an undergraduate organization at the University of North Carolina, gave $1,400 to be known as the Grail Loan Fund. The principal of this fund is to be loaned to worthy students and the income is to be used as the Grail Scholarship. This scholarship, at present a cash award of $60, is to be made each fall to that member of the entering class who as a senior in a North Carolina high school made the highest score on the annual State-wide examination conducted by the North Carolina College Conference.

The Alumni Loyalty Loan Fund. Established on June 30, 1930, by the advance of $12,200.00 out of the Alumni Loyalty Fund.

The Alden Joseph Blethen III Memorial Lending Fund. During the fall of 1930, Col. C. B. Blethen, of Seattle, Wash., gave $2,000 to be known as the Alden Joseph Blethen III Memorial Lending Fund. This he did as a memorial to his son, A. J. Blethen III, a member of the Class of 1934. The principal of the fund is to be loaned to deserving students.

The Rockingham County Alumni Loan Fund. A fund of $713.32 advanced by the Rockingham County Alumni Association, available since January 11, 1932. It may be recalled by the lender as it may desire.

Escheats Fund. According to State law, clerks of court are directed to forward to the University money included in estates for which no heir can be discovered. For these funds the University is merely custodian for a period of years during which any heir discovered may legally claim the funds. During this period the money is placed in the Student Loan Funds as a temporary investment.

The Charles L. Coon Memorial Loan Fund. A fund of $615.00 established by the administrators of the Charles L. Coon Memorial Loan Fund of Wilson, North Carolina, in September, 1934. The funds to be loaned to graduates of the Charles L. Coon High School of Wilson, North Carolina, upon the written approval of the Superintendent and the Chairman of the Board of Trustees of said high school.

The Charlotte Kiwanis Club Loan Fund. A fund of $325.00 established by the Kiwanis Club of Charlotte, North Carolina, in 1935. Loans to be made to students from Mecklenburg County, North Carolina, who have successfully completed at least two years of college work at the University, and who have the written approval of the loan committee of the Charlotte Kiwanis Club.

### The Emergency Student Loan Funds

In the winter and spring of 1932, the University confronted a genuine emergency growing out of an announced reduction of state appropriations by 30%, and the fact that between five hundred and seven hundred students were without funds with which to continue their course. When this situation was presented by President Graham, students ($2,057.14), faculty ($2,035.38), the people and community organizations of Chapel Hill ($970.22), various chapters of the D. A. R., U. D. C., and other committees of women, began building a student loan fund. Alumni and friends of the University everywhere contributed to raise the total of new loan resources to $109,000.00, known collectively as "The Emergency Student Loan Fund." The portions of that fund which for some appropriate reason were separately established are listed below. Unless otherwise indicated, the funds are loaned on the same terms as is the Deems Fund.

THE W. C. COKER LOAN FUND. A fund of $500.00 established February 2, 1932, by Dr. W. C. Coker, head of the Department of Botany of the University.

THE JESSIE KENAN WISE LOAN FUNDS. A loan fund of $25,000.00 established February 4, 1932, by Mrs. Jessie Kenan Wise, of Wilmington, N. C., and another loan fund of $47,000.00 in securities, the income from which may be loaned to students immediately, and the principal may be similarly used when available through the sale of the securities as opportunity for sale on favorable terms may arise.

THE BURTON CRAIGE LOAN FUND. A fund of $1,000.00 established February 6, 1932, by Mr. Burton Craige, 1897, of Winston-Salem, N. C.

THE JAMES A. GRAY LOAN FUND. A fund of $500.00 established February 15, 1932, by Mr. James A. Gray, '08, of Winston-Salem, N. C.

THE BLAIR LOAN FUND. A fund of $500.00 established March 2, 1932, by Col. David H. Blair, '98, and Mrs. David H. Blair, of Washington, D. C.

THE SARAH WATTS MORRISON LOAN FUND. A fund of $1,000.00 established March 4, 1932, by Mrs. Sarah Watts Morrison of Durham and Charlotte, N. C.

THE STUDENT LOAN FUND OF THE NORTH CAROLINA CONGRESS OF PARENTS AND TEACHERS, INC. A fund of $750.00 loaned to the student loan funds by Mrs. J. W. Burke, Treasurer, by authority of the organization named above.

THE SARAH GRAHAM KENAN LOAN FUND. A fund of $1,000 established March 7, 1932, by Mrs. Sarah G. Kenan, of Wilmington, N. C., to be used first by a designated student. When repaid, Mrs. Kenan will indicate its further usage.

THE MILO M. PENDLETON LOAN FUND. A fund of $1,000.00 established March 15, 1932, by Mrs. Katherine Pendleton Arrington as a memorial to her brother, Milo M. Pendleton, of the Pharmacy Class of 1902.

THE RICHMOND, VIRGINIA, ALUMNI ASSOCIATION LOAN FUND. A fund of $320.00 given by the organization named above with the request it be set so as to receive annual additions from the donors. It has been available since March 29, 1932.

THE LOAN FUND OF THE WOMAN'S AUXILIARY, N. C. PHARMACEUTICAL ASSOCIATION. A fund of $150.00 given by the above named organization, through its president, Mrs. F. W. Hancock, of Oxford, N. C. This fund has been available for Pharmacy students at the University since April 8, 1932.

The Edrington Spencer Penn and Charles Ashby Penn, Jr., Loan Fund. A fund of $1,000 established April 14, 1932, by Mrs. Charles Ashby Penn of Reidsville, North Carolina.

The C. W. Toms Loan Fund. A fund of $1,000.00 established May 19, 1932, by Mr. C. W. Toms, '89, of New York City, in memory of his son, the late George Newby Toms, '28.

The Margaret McCaull Carmichael Loan Fund. A fund of $1,000.00 established by Mr. W. D. Carmichael, '97, on May 25, 1932. Mr. Carmichael is a resident of Durham, N. C., and New York City.

The Jefferson C. Bynum Memorial Loan Fund. A trust fund established by Mrs. Jefferson C. Bynum in memory of her husband. The fund of $2,000.00 to be held in trust for the future education of her two sons, Jefferson C. Bynum, Jr., and Rufus S. Bynum. Pending the matriculation of the beneficiaries at the University, the fund may be loaned to University students.

The Annie Louise Watts Hill Loan Fund. A fund of $1,000.00 established by Mr. John Sprunt Hill, of Durham, N. C., on June 4, 1932, as a memorial to his wife.

The George Basley Hiss Loan Fund. A fund of $10,000.00 established by Mrs. Bertha T. Hiss, of Charlotte, N. C., in memory of her husband, George Basley Hiss. This fund has been available since June 30, 1932.

### Applications for Loans

Applications for loans will be considered when made in person by students registered in the University. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest. Application should be made to the Student Loan Fund office as far in advance as possible.

### Self Help

Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. Students are selected by the authorities as clerks in the University Library and as helpers in the University Laundry and Buildings Department. Otherwise all opportunities available in the University and town must be secured by the personal efforts of the individual, with the assistance of the Self-Help Bureau of which Mr. Edwin S. Lanier is secretary. They are not assigned by the President of the University nor by the Dean of Administration nor by the Dean of Admission nor by the Dean of Students. Application should be made direct to the Self-Help Bureau of the Y. M. C. A. before May 15, after which time the assignments to the Library, the Laundry, and the Buildings Department are made.

## MEDALS AND PRIZES

The Mangum Medal in Oratory. (Established in 1878). A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, class of 1815, is continued by his granddaughter, Mrs. Stephen B. Weeks, and his great-grandson, Mr. Julian Turner, and is awarded to that member of the Senior Class who during his four years prior to graduation has best exhibited the qualities of oratory, debate, and scholarship.

The Eben Alexander Prize in Greek. (Established in 1887). A prize of $10 is offered annually to that member of the Sophomore Class who shall present the best rendering into English of selected passages of Greek not previously read.

The Kerr Prize in Geology and Mineralogy. (Established in 1889). A prize of $50 is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Carruthers Kerr, to any undergraduate or graduate student for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Bingham Prize in Debate. (Established in 1899). This prize is offered by Mr. R. W. Bingham, in memory of his great-grandfather, grandfather, father, and brother. It is given annually, for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held during Commencement.

The Bryan Prize in Political Science. (Established in 1903). A prize will be given annually for the best thesis in Political Science. The fund was established by the late William Jennings Bryan.

The Archibald Henderson Prize in Mathematics, formerly the William Cain Prize. (Established in 1908). A gold medal is offered annually to that student who shall take the highest rank in Mathematics 32-33. No student will be recommended for the prize unless he attains to grade B.

The Mildred Williams Buchan Prize. (Established in 1920). A fund of one thousand dollars was given by Mr. Edward Robertson Buchan in memory of his wife. The income of this fund is to provide a prize in the Department of Philosophy.

The Patterson Medal. (Established in 1924). A gold medal is offered annually by Lieutenant Commander D. F. Patterson, U. S. N., Mr. Albert F. Patterson, and Dr. Joseph F. Patterson to commemorate the memory of their brother, John Durant Patterson. This medal is awarded for general excellence in athletics to a student selected by a special committee.

Chi Omega Prize in Sociology. A prize of twenty-five dollars is awarded by the local chapter of the Chi Omega fraternity to the undergraduate woman student who writes the best paper on some subject in the field of sociology or public administration. The subject will be submitted to the undergraduate student body some time before the fifteenth of February. Papers are required to be handed in by the fifteenth of May. The Department of Sociology will select the subject and act as judges of the papers. The prize will be awarded at Commencement.

# REGULATIONS

## SPECIAL NOTICE TO STUDENTS

*This catalogue, issued in the spring of each year, is intended to give such a description of the work of the University and such a digest of its rules as are needed by students. Neither the courses announced nor the rules given are valid beyond the succeeding year, for before the end of the succeeding year a new catalogue will have been issued, superseding all previous catalogues. Ordinarily a student may expect to be allowed to secure a degree in accordance with the requirements of the curriculum laid down in the catalogue in force when he first entered the University, or in any one subsequent catalogue published while he is a student; but the faculty reserves the right to make changes in curricula, as in rules, at any time when in its judgment such changes are for the best interests of the students and the University.*

## REGISTRATION

All students are expected to present themselves for registration *Wednesday or Thursday, September 16 or 17, 1936, between the hours of 9 a. m. and 5 p. m., at the places announced in the plan for registration. All men registering here for the first time will report for physical examination to the Infirmary; all women will consult Mrs. M. H. Stacy, Adviser to Women, in her office in the South Building, second floor. Bills for tuition and fees are payable at the time of registration. For the winter and spring quarters all academic students must register in December and March according to a schedule published immediately before the examinations for the fall and winter quarters begin.

Registration for credit for any course is limited to the first seven calendar days of a quarter, unless the late registration is approved by the instructor concerned, the Dean, and the Administrative Board (or the Special Faculty) of the school.

## PAYMENT OF BILLS

Bills for the fall quarter are payable at the time of registration. Bills for the winter and spring quarters are payable at the Business office on the first class day of the quarter. Failure to pay or to make proper arrangements for payment results in the assessment of an extra fee of $5.00.

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* Students transferring from other institutions should have transcripts of their former records sent at least two weeks in advance to the Dean of Admissions, and should present themselves for registration on Wednesday, September 16, 1936.

## DELAYED REGISTRATION

The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. No appeal from the imposition of either attendance probation or the late registration charge of five dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control. Such appeals must be made in writing to the Dean of Administration, must show clearly good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the division of the University in which the appellant is enrolled.

## ARRANGEMENT OF COURSES

Attention is called to the reduction of credit for freshman and sophomore courses when taken late in the student's career. Only half credit is allowed if a regular freshman course is taken after a student begins his seventh quarter or if a regular sophomore course is taken after he begins his tenth quarter.

No student will be allowed to take fewer than fifteen credit hours a week. A load up to eighteen credit hours a week may be taken without any restrictions; one of nineteen or twenty credit hours a week requires a scholastic average of at least C in the preceding quarter; one of twenty-one or more credit hours a week requires a scholastic average of at least B in the preceding quarter *and* the approval of the Dean.

Students desiring to change their courses must make written application to the Dean for the desired changes. The application will be considered by the Dean and will be granted only after a careful consideration of the facts in each case. The written permission of the Dean must be presented at the office of the Assistant Registrar, room 8, the South Building, and payment must be made of the fee of twenty-five cents for each item of change. *Changes in registration are limited to the first seven calendar days of a quarter.*

## ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Cashier in the order of application, subject to the special regulations given below.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University dormitories.

In order to retain his room for the next scholastic year, a student must file with the Cashier before May 25 an application and a deposit of $5.00 as an option. Double rooms must be applied for by both

intending occupants. The rooms thus applied for will be retained until September 1, when first payment of rent is due. The option deposit will be forfeited in case the applicant does not himself occupy the room and pay the rent. Rooms not applied for or made vacant by failure to pay at the proper date will be assigned in the order of application.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture in his room or to the room.

No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

## CONDUCT

By order of the Board of Trustees the Faculty is directed to discipline or dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct. See also Student Government, page 13.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism may be required to leave the University.

Students, unless *bona fide* residents of Chapel Hill, when suspended from the University for disciplinary reasons, must leave the campus and Chapel Hill within forty-eight (48) hours or forfeit the right to readmission at any time.

## ATTENDANCE

Due to the policy under which courses are given in the University, namely lectures, daily work, quizzes, and short final examinations, regular attendance upon meetings of classes is considered very important and is considered a student obligation.

Beginning with the spring quarter, 1936, the responsibility for attendance is in the hands of the instructors in the various courses. Departments may make uniform regulations governing attendance if they so desire.

Instructors in all cases are expected to keep a daily record of attendance and to report to the Associate Registrar the name of any student who has been absent three consecutive meetings of a class.

Instructors are expected to warn a student who has been absent more than seems reasonable. Further absences give instructors the right to request the Dean concerned to exclude such a student from the class. If the Dean knows extenuating circumstances he must confer with the instructor before the student is actually excluded.

Any student who has attained the honor roll during two successive quarters shall be exempt during the ensuing quarter from the regulations governing absences and shall be exempt thereafter so long as that student maintains the honor roll average. To the foregoing regulation there are to be the following exceptions: (a) the privilege of absences does not apply to requirements of attendance relative to written or laboratory work or to quizzes and examinations; (b) the privilege earned by the student shall be forfeited if that student is absent without excuse immediately before or immediately after holidays.

Departments or instructors may, on occasion, permit the student to attend or engage in an educational activity other than that of the class as a substitute for class attendance.

The Deans are expected to use their best judgment in the matter of allowing a student to remain in residence after having been dropped from one or more classes. The Deans will also coöperate with the instructors in bringing students to a realization of the consequences of excessive absences.

It is the duty of instructors to report to the Associate Registrar all absences occurring at the *beginning of each quarter and all those occurring immediately before and immediately after holidays. The penalty for such absences is loss of membership in the student body. Favorable action (for good cause) by the Committee of Deans is necessary before the student may be readmitted to the University.

Absences from class attendance for cause may be excused. Such absences are those due (a) **to participation in recognized University activities, as those of the Glee Club, Debating and Athletic teams, and the Playmakers when occurring away from Chapel Hill, such excuses to be issued by the Assistant Registrar; (b) ***those due to actual illness, testified to by the physician who attended the student in person during illness; and (c) **those due to emergencies caused by extraordinary circumstances, when excused by the Dean of the School concerned.

The Assistant Registrar will furnish to the student upon request for the information of instructors a record of days he has been excused.

Any student who is absent from a quiz or an examination at the appointed time thereof without excuse as defined above will not be permitted to make up this quiz or examination. Any department may impose a fee not exceeding one dollar ($1.00) upon the student having excuse for such absence for the privilege of taking a special quiz or examination or a make-up laboratory exercise.

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* The Departments are expected to coöperate with the Deans in getting classes accurately organized by remaining on duty the whole day for the first few days of each quarter.

** Such unauthorized leave of absence must be secured in advance.

*** Excuses for illness must be reported within forty-eight hours from time of the beginning of the illness.

No student unless exempted by having attained the honor roll privileges of optional attendance shall be given credit in the University for any course unless that student has attended at least 75 per cent of the class meetings of the course during the quarter in which it is offered.

Departments may require students who have been absent, whether the absences are excused or not, to make up work covered during the periods thereof.

### Other Regulations Governing Attendance

The grade of a student who quits a course without the permission of the Dean of his College or School is recorded officially as F.

The grade of a student who drops a course in which he is failing at that time shall be recorded as F, unless, in the judgment of his Dean, the reason for his failure be circumstances clearly beyond his control.

No student is allowed to absent himself from the University without written permission as provided above. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

## EXAMINATIONS

Regular written examinations are required at the end of each quarter in all courses except those the nature of which is such as to make written examinations unnecessary. Approval of such exceptions must be secured in advance from the Dean of the College.

Before receiving his degree each senior in the College of Arts and Sciences is required to pass to the satisfaction of his major department an examination in the field of his major study. Such a comprehensive examination may be taken by a student only once in any one quarter and may not be taken until the student has completed at least two-thirds of the work required for the major. This rule became effective with the class receiving degrees in June, 1930.

Special examinations may be taken by students, who have received the condition grade (E), at the period of the special examinations in September. Provided he has no conflict with a course regularly taken by him in the quarter such a student may take the examination with the class in the same subject at any regular quarter examination within a year after he has made the grade E. A senior who makes a grade of E in his last quarter of residence is allowed to take a special examination for removal of the E not earlier than three days after his last examination in that period of examinations. The grade E becomes F if the student fails to pass the reëxamination whether taken in September or at a regular period.

Under no circumstances may a student stand a special examination to remove a condition grade (E) between the first and the last class

days in any quarter unless such examination is requested by the Committee of Deans.

Special examinations for students who have been officially excused from regular examinations on account of sickness or have been absent on account of some necessary cause may be held at suitable times fixed by the Recorder and the instructors concerned. Such examinations must be taken within twelve (12) months of the date of absence.

To be entitled to take a special examination within a quarter, or at the September period, or at a regular quarter examination period, the student is required to file with the Recorder at least one week prior to the time for the examination a written notice that he desires to take such examination.

Final examinations except in laboratory practice may not be held at any times other than those specified in the preceding regulations.

No examinations may be held later than 6:30 p.m.

All examinations must be held in Chapel Hill.

Examinations should be limited to a period of two hours. In courses in which a considerable portion of the examination is of a *practical* nature, the instructor may extend the time in his discretion.

No students other than the following may take the examination in any course: 1st—regularly enrolled members of the class whose names have been reported from the Recorder's office to the instructor as having registered in due form for the course; and 2nd—those whose names have been reported from the Recorder's office as having the right to take special examinations on that course.

Students absent from an examination without an official excuse or present and failing to submit examination papers are reported "absent." This mark is equivalent in every respect to grade F or failure, and is so reckoned in the office of the Registrar.

Each student is required to subscribe his name to the following pledge or its equivalent on every paper: "I hereby certify that during this examination I have neither given nor received aid." The instructor should not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been officially excused from the regular examination will be graded; all others will be marked "passed" or "failed."

Schedules of examinations at the ends of the terms and in September are to be so arranged that examinations set for the last day of the period shall be set for the first day of the next period.

The order of examinations for the removal of conditions in September, 1936, will be as follows:

*Monday, September 14*

| | | | |
|---|---|---|---|
| 8:30 a. m. | Economics<br>Romance Languages<br>Zoology | 11:00 a. m. | Music<br>History<br>Mathematics<br>Polit. Science |
| 2:00 p. m. | Education<br>English<br>German | 4:30 p. m. | Compar. Literature<br>Greek<br>Physics<br>Sociology |

*Tuesday, September 15*

| | | | |
|---|---|---|---|
| 8:30 a. m. | Geology<br>Psychology<br>Rural Economics | 11:00 a. m. | Botany<br>Engineering<br>Latin |
| 2:00 p. m. | Chemistry<br>Commerce<br>Philosophy | | |

## STANDING

After the close of each quarter reports of the standing of all students in all their studies are sent to parents or guardians. The reports are based upon the following system of marking:

Grade A, Excellent.
Grade B, Good.
Grade C, Fair.
Grade D, Barely passed.
Grade E, Conditioned.
Grade F, Failed.
*Grade I, Work incomplete.

When a student has shown marked deficiency in the use of English in any course, his grade in that course may have attached a "composition condition" (cc). This condition, while not affecting a student's eligibility for continuance in the University, must be removed before final credit will be allowed. Such conditions may be removed by the subsequent completion of the regular freshman courses in English, by passing a special examination (offered each quarter by the Department of English for this purpose), or by completing the non-credit course in elementary English composition.

A student must attain a grade of D to pass in any study, Grade E indicates that the student is conditioned but may remove the deficiency by special examination as explained above. Students receiving grade F must repeat the study to receive any credit for the same.

* The grade I may be converted into one of the other grades by completing within a period of twelve months such additional assignments as may be required by the instructor in the course. A grade of I not so converted becomes F.

Any student, after conference with the instructor concerned may appeal from a course grade provided the appeal is presented in writing to the Dean of Administration within thirty regular college days after the grade has been recorded. The Dean of Administration, after bringing the appeal to the attention of the head of the department concerned, will refer it to the Administrative Board of the College. The Board's decision shall be final.

To be eligible for graduation a student must secure the grade of C or higher on at least half of his work.

Interpretation of this ruling:

(1) A student who completes the required courses but with grades which do not entitle him to his degree will be allowed to take additional junior-senior courses until such time as he meets the requirement of the rule.

(2) Transfers with advanced standing will come under this rule only for those courses pursued at this Institution; but it is expected that at least 50% of the work offered for advanced credit shall be of grade C (one degree above the passing mark) or better.

A student to be ranked as a Sophomore must have passed at least thirty-six quarter hours; to be ranked as a Junior, at least seventy-eight quarter hours; to be ranked as a Senior, at least one hundred, thirty-six quarter hours.

Undergraduate students, in order to be eligible to continue in the University, must qualify according to the following requirements: A freshman must pass some *academic work in each quarter, and a total of at least thirty quarter hours before beginning his fourth quarter. After the freshman year (three quarters) a student must pass at least ten hours each quarter. Ineligible persons are not to be considered members of the University. In case a student has been handicapped by circumstances beyond his control, he may appeal for readmission to the Committee of Deans by means of a written petition stating his case and sent to the Registrar's office. Deficiencies may be made up by correspondence work or in the summer session, in which case only credits exceeding five hours credit so obtained shall count for readmission. In three quarters, therefore, a freshman must pass at least thirty hours, or thirty-five if he is making up a shortage by correspondence work or in the summer session; and one above freshman year similarly must pass at least thirty hours or thirty-five if he is making good a deficiency by correspondence work or in the summer session.

No student who fails to qualify under the above regulations may be readmitted to *any division* of the University except by a special

* For the purpose of this rule freshman courses in hygiene and physical education are not included in "academic work," but they may be counted in the total of thirty quarter hours required in three quarters. In case a freshman is exempt from the requirement of physical exercise, the number thirty is reduced by one quarter hour for each quarter he is exempt.

vote of the faculty or a delegated committee of the faculty. This delegated committee of the faculty will meet at 10:00 a.m. on the *last* Saturday in July, at 10:00 a.m. on the second day *before* the stated registration day at the opening of each quarter, and at 10:30 a.m. on the second day *after* the stated registration day at the opening of each quarter to consider written petitions of students who have definite and convincing reasons on which to base a request that the rule be waived. All petitions, except those of students in Law, Medicine, and Pharmacy, should be sent to the Associate Registrar *in writing* and, to be considered, must be in hand *before* the stated meetings in that quarter in which the student seeks readmission. *Notice is given that the rule may be waived only once for any individual.*

## WITHDRAWALS

If a student wishes to withdraw at any time other than the end of a quarter, a formal withdrawal, which is prerequisite to honorable dismissal or reëntrance to this institution, must be approved by the Dean to be valid. Such a withdrawal will be approved only after full investigation of the circumstances and after the lapse of twenty-four hours from the time the first application is filed with the Dean. The withdrawal form after approval by the Dean must be filed promptly with the Recorder in room 8, the South Building.

If a student withdraws after the mid-term and is reported as below passing in two or more courses, that quarter will be counted as a quarter in residence in all computations of his requirements for readmission. If a student withdraws before mid-term, it will be left to the discretion of the Dean as to whether or not that quarter is to be counted as a quarter in residence. The Dean's verdict will be indicated specifically on the form used for withdrawal.

## GRADUATION

Each senior will be officially informed by the Dean in September of all deficiencies standing against him.

## FRATERNITIES

GENERAL REGULATIONS. Students may join fraternities after registration at the opening of any quarter or term provided they are eligible under the special regulations of the Faculty. Before a fraternity may initiate a pledge it must make written inquiry of the Assistant Registrar as to the eligibility of such pledge and must secure a written certificate of eligibility. Pledging of a student to join a fraternity is not allowed until he has been in the University a specified length of time as follows: If he matriculates for the first time in the University in the summer session or in the fall quarter, he may not be pledged until the regular pledge date for the quarter; if in the winter quarter, until a similar date in that quarter; if in the spring quarter, until a

similar date in that quarter. No student may be pledged during the summer session, but, if a student remains in the summer session for the full twelve weeks, it may be counted for him as a regular quarter towards meeting the requirements as to residence. A student entering the University with advanced standing, whether he enters an academic or a professional school, may not be pledged until the regular pledge date after the date of his matriculation in this institution; but in no case may a student be pledged during the summer session.

## TRANSCRIPTS OF RECORD

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification, and scholarship. In particular, no partial or incomplete scholastic record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will be included, and such information will be given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

Transcripts of record, except the first which is furnished without cost, will be made upon payment of one dollar ($1.00) for each copy desired.

## INTERCOLLEGIATE ATHLETICS

The University is a member of the Southern Conference and its rules necessarily conform to the rules of the Conference. Only a summary of the rules which affect the student are given here.

To be eligible to represent the institution in intercollegiate athletics, including freshman games, the student must have presented fifteen acceptable units for first admission; must be taking regular work as approved by his Dean; must be free from academic and conduct probation; must have been declared eligible by the faculty eligibility committee after convincing the committee that he receives no preferential treatment due to athletic ability by way of a scholarship, loan, job, or other financial or material assistance; must not have taken

part in any intercollegiate contest at any other college as a freshman or varsity player in the same sport in which he wishes to represent this University. If a student transfers from some other college he is not eligible for intercollegiate athletics on either freshman or varsity teams for twelve months from the date of first matericulation here unless he is a graduate of a Junior College which is a member of its regional accrediting agency. For this region the Southern Association of Colleges and Secondary Schools is the agency. Thus if a student transfers as a graduate from a Junior College which is a member of its regional accrediting agency he may participate in varsity athletics his first year here, but his total time of participation is limited to a period of five years from the time of first matriculation in any college including a Junior College. If a student has played upon the team of a Junior College while in the preparatory department of said college he will not be eligible for freshman or varsity teams during his first year in this University, but will be eligible for varsity athletics after one year. This same rule applies to a student who has been in a Junior College and who transfers before graduation.

No student will be allowed to take part in athletics until he has been declared physically fit by the University Physicians nor if his parents or guardians disapprove.

It may be said that the University lends all possible encouragement to students to take part in athletics, by way of playing fields, equipment, large coaching staff, good Physical Education Department, a full program of intercollegiate and intramural athletics, courses in hygiene and health, and directed physical training.

For further details in regard to athletics the student should write to Dr. A. W. Hobbs, Chairman, Faculty Committee on Athletics.

### Special Rules of the University of North Carolina

In addition to the rules of the Southern Conference the following local rules apply to all students participating in intercollegiate athletics:

No student may be a candidate for the baseball team unless he has been in attendance during the preceding winter quarter without the express permission of the Faculty Committee on Athletics.

Inasmuch as a member of an athletic team of this University enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable. Any student reported as deficient in a majority of his classes may be prohibited by the Dean of his school from participating in any intercollegiate contest until the deficiency is made good.

No team will be allowed to be absent from the University for more than ten lecture days during any quarter.

No person may take part in preliminary football training before

the opening of the fall quarter unless he be eligible to enter the University at the time of such training.

The manager of each athletic team shall submit to the Faculty Committee on Athletics a schedule of all engagements before positive arrangements are made.

## REGULATIONS GOVERNING DRAMATIC, MUSICAL, DEBATING, AND SIMILAR ORGANIZATIONS

1. No student will be allowed to take part in dramatic, musical, debating, oratorical, or similar events entailing absence from the University whose parents (or guardian) object to such participation.

2. Any student who was in attendance at the University during a previous quarter must have passed, during his last quarter of attendance, satisfactory examinations upon at least ten quarter hours or their equivalent, before he will be allowed to represent the Univrsity in any dramatic, musical, debating, oratorical, or similar event of a public nature.

3. Any student reported during the course of any quarter as deficient in a majority of his classes may be prohibited by the Dean of his school from participating in any dramatic, musical, debating, oratorical, or similar event until such deficiency is made good.

4. No team or club will be allowed to be absent from the University more than ten lecture days during any quarter.

5. No student having membership in more than one of these organizations, or in one of these and one athletic organization will be allowed to be absent from the University more than ten lecture days during any quarter.

# THE COLLEGE OF ARTS AND SCIENCES

## GENERAL STATEMENT

Beginning with the year 1935-1936 the School of Education, the School of Applied Sciences, and the College of Liberal Arts are combined into one School, the College of Arts and Sciences. In addition to administrative simplicity there are certain other values to be expected from the combination. In the case of the School of Education it was thought that under the present arrangement there would be a closer coöperation between all the agencies in the University interested in teacher training, and due to the importance of this question such coöperation is greatly to be desired. We may say then that under the College of Arts and Sciences are grouped the regular Arts courses with majors in the various academic fields, the special Science courses having special Bachelor of Science degrees in Chemistry, Geology, Physics, and Medicine, and all undergraduate teacher training programs.

Students in the College of Arts and Sciences have completed the first two years of college work in this or some other institution of similar standards. Thus only the junior and senior years are represented. In this University the first two years for all students except those in the School of Pharmacy, are in the General College which has a Dean and a corps of Advisers whose purpose it is to see that students get started correctly and as nearly as possible in line with their aptitudes and interests.

The work of the College of Arts and Sciences is confined to three Divisions known as the Division of the Humanities, the Division of Natural Sciences, and the Division of Social Sciences. Students who know what they expect to study at the beginning of the freshman year or at the beginning of the sophomore year have, through the options and the electives, the opportunity to prepare for almost any desirable specialization in the last two years.

At the beginning of the junior year a student expecting to enter the College of Arts and Sciences must choose one of the Divisions for his major work. He will then be under the direction of the Head of the Division and an Adviser from the Department of his major subject. The only students not so placed in Divisions will be candidates for the combined A.B.-L.L.B. degree and special students not candidates for any degree. Such students will be directly under the guidance of the Dean of the College.

It is the general understanding that during the junior and senior years a student in a Division will take about one-third of his work in one Department, one-third in allied Departments in the Division of his major, and one-third as free electives outside the Division. There are variations from the numerical aspects of this rule due to special

circumstances and among the Divisions. It is also understood that a student shall have the right to submit a program of his own, which may be at variance with the regular divisional arrangement, to the Head of a Division and, if it is approved by the Advisory Board of the Division, he may follow it towards the appropriate degree. The requirements of the Divisions are explained later under the Divisions themselves, and as has already been said they vary somewhat among the Divisions and from the average figures.

Special attention should be called to the Bachelor of Arts degree with major in Music and to the Bachelor of Arts in Journalism. In addition to these are the Bachelor of Science courses in the special sciences of Chemistry, Geology, Physics requiring the usual four year program; the Bachelor of Science in Medicine, awarded at the end of the first year in the Medical School of this University; the A.B. degree after a specified program of two years in the General College, one in the College of Arts and Sciences, and one year in the School of Law of this University. The teacher training programs vary with the subjects to be taught in the high schools according to the schedules of the State Department of Education. Special attention is given to physical education and health programs for the schools by specialists in this field. The courses in dramatic arts and the Carolina Playmakers furnish good opportunity for students interested in the theatre.

Attention should be called to the opportunities offered by the Summer Session for reducing the time spent in completing the work for degrees and for making changes from one program to another without loss of time. By this means students as late as the end of the sophomore year may change from a regular Bachelor of Arts program to one of the special Bachelor of Science programs by making use of the Summer Sessions.

## TEACHER TRAINING

Special attention is given to the proper training of those who expect to teach in the high schools of the State. Through an arrangement with the Chapel Hill High School students are given the opportunity to observe a specially trained group of teachers at work and to take part in the teaching themselves. Training for persons who expect to work in Physical Education as well as to teach in the Schools is provided through the coöperation of the Medical School, the entire Athletic Staff, and the Director of the Gymnasium, with the specialists in Physical Education.

## PREPARATION FOR THE STUDY OF LAW AND MEDICINE

Students preparing for the study of Medicine or of Law may do so in one of the following ways: (1) they may take the regular four-year course leading to the A.B. degree, choosing subjects proper to their purpose; (2) they may take the special courses leading to the A.B.-

L.L.B. or the S.B. in Medicine; (3) they may take three years of academic work without the Bachelor's Degree in view, but with careful regard to meeting the exact requirements. Students preparing for dentistry should take at least the first two years of the pre-medical course.

## ADMISSION

Admission to the College of Arts and Sciences is based upon the satisfactory completion of the first two years in this University or another institution of similar standards. It is expected that at least half the grades received in the work presented for admission be of grade "C" or better.* In cases upon which there is doubt as to preparation credits granted will be of a tentative nature which must be validated by work taken in this University.

In general students entering the third year of college, which is the first year in the College of Arts and Sciences, should present at least sixty-four semester hours of college work, or ninety-six quarter hours exclusive of physical education. This work should include two years of work in English, two in one foreign language above the entrance units, two years in one or one year in each of two natural sciences, two years in social science, including history, one year in mathematics or a classical language, one year of physical education, and sufficient electives to make the full two years of college work.

In exceptional cases provision will be made for students who cannot meet the exact requirements, either to take the work needed here in the General College or to take examinations to prove that they are able to carry the work in the College of Arts and Sciences. In no case, however, will a degree be conferred without the completion of the full entrance requirements of this University either by examination or by certificate, the completion of the full course as required for the degree concerned, *and the additional requirement that the full work of the last year shall be done in residence at this University.*

## THE DIVISIONS

The purpose of the Divisions is to associate together in the interest of education at the level of the junior and senior years those members of the faculty who are working in more or less closely related fields. In a large faculty, such as ours, it is practically impossible for all to understand the special problems of smaller groups such as are represented by the Divisions. It is expected that the Divisions will give special attention to programs of study, to the content of courses of instruction, to the improvement of teaching, to the encouragement of the beginnings of research, and generally to the improvement of personnel and physical equipment.

After full consideration and discussion the Divisions have arranged

* This means 80 or higher in per centage grades with 70 as the passing grade.

their general plans of operation with reference to requirements in the junior and seniors years as will be shown below. As ordered by the General Faculty in its action on the plan, it is understood that any individual may find it advisable to work out for himself a plan, submit that plan in detail to the Division of his choice, and ask for approval of the same. If such approval is granted, he may proceed towards his degree on that plan.

## THE DIVISION OF THE HUMANITIES

WILLIAM MORTON DEY, Ph.D., *Chairman*
RICHMOND PUGH BOND, Ph.D., *Secretary*

After a student has selected his department of major interest, that department must require of him a minimum of six whole quarter courses, or the equivalent in whole and half courses, and may require a maximum of eight such courses. In allied departments of the same Division the student must take at least four such quarter courses and may take eight, distributed in such manner that not more than four of these courses may be from within one department. It is required that the student take from departments in the other Divisions at least four and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole quarter courses over and above the full requirements of the General College.

The Departments of Instruction included in the Division of the Humanities are as follows:

| | |
|---|---|
| The Classics | General and Comparative Literature |
| English | Germanic Languages |
| History | Library Science |
| Philosophy | Romance Languages |

For the present is included here work in Art and Archaeology, Music, and Theatre Arts.

Note that for the purpose of teacher-training the Department of Education is considered as allied to each Division (not to be listed as a department in each Division). This is officially interpreted to mean that the Department participate fully with voting power in each Division in makng programs for teacher training.

### Program for Honors Work

A student in one of the departments in the Division of the Humanities may as the result of distinguished work be awarded a degree with *Honors* or *Highest Honors.*

I. APPLICATION. At the end of sophomore year or the beginning of junior year the student with a good record for courses in the General College may become a candidate for honors by applying to the head of his major department or to the chairman of the departmental

committee on honors, with whom he will confer on a unified program of work. The student who fails to register for honors before the second quarter of his junior year may be admitted to candidacy only upon application to the Advisory Board of the Division.

II. REQUIREMENTS. The honors student is expected to give evidence of ability to do work which in quality and quantity can be judged as outstanding. In addition to a good general knowledge of his major subject he must secure an intensive understanding of that special field which will form the background of his essay. To this end he should do, in term and in vacation, a large amount of reading additional to that assigned in his regular courses. (For reading courses see below, Section IV.) A grade average of B in the major subject will normally be considered as a minimum. The following are the formal requirements for an honors degree in the Division:

1. *Written comprehensive examination.*
2. *Essay.* This essay, which need not be a piece of original research, must be submitted in typed form by May first of senior year.
3. *Oral examination.* This examination, one hour in length, will be limited to the student's special field.

All of the honors work must come up to a standard of excellence to be determined by the departmental committee, which shall have charge of the administration of the requirements and shall have the power to demand that a student return to his regular status. The candidates showing a superlative degree of ability and industry will be awarded *Highest Honors.*

III. ADVISER. To guide him in his reading and in the preparation of his essay a member of the staff of his major department will be assigned the honors candidate as a special adviser.

IV. EXEMPTION FROM CLASSROOM COURSES. The honors student may receive credit for as many as three reading courses. Such courses, with exemption from class attendance and the requirements of regular courses, should usually be taken during the first and second quarters of senior year, though the departmental committee, on the recommendation of the special adviser, will have power to modify such a procedure. Only one of the three reading courses may be taken during junior year, not more than two of them may be taken during a single quarter, and all three of them must be counted as belonging to the major subject. The honors candidate who upon his own initiative or the decision of the departmental committee abandons working for honors or who fails to satisfy all the formal requirements for an honors degree may, with the consent of the departmental committee, receive credit for the reading courses which he has completed.

## THE DIVISION OF THE SOCIAL SCIENCES

DUDLEY DEWITT CARROLL, M.A., *Chairman*
KATHARINE JOCHER, Ph.D., *Secretary*

This Division requires the student to complete a minimum of six whole quarter courses or the equivalent in whole and half courses in his chosen department of major interest. If however essential foundation courses in the major department have not been completed in the General College, a maximum of eight such courses may be required in that department. From five to seven courses in allied departments within the Division of the Social Sciences are required, and from Departments in the other Divisions at least five and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole courses over and above the full requirements of the General College.

This Division includes the following Departments of Instruction:

| | | |
|---|---|---|
| Economics | Sociology | Rural Social Economics |
| Philosophy | History | *Public Administration |
| Psychology | Political Science | |

NOTE: See the note on the Department of Education above in connection with the Division of the Humanities.

## THE DIVISION OF THE NATURAL SCIENCES

ROBERT ERVIN COKER, Ph.D., *Chairman*
FLOYD HARRIS EDMISTER, Ph.D., *Secretary*

The general requirements in this Division are as follows: six whole quarter courses or the equivalent in the department of major interest, six in allied departments of the Division, and six in departments in other Divisions.

By action of the Division it is agreed that courses taken in the General College (exclusive of regular freshman courses) may, in the discretion of the department concerned, be credited towards meeting the requirement for a major; and that similar courses in allied departments taken in the General College may, in the discretion of his department of major interest, be credited towards meeting the requirement of courses in allied departments. The purpose of this action is to give the student a larger opportunity to take courses in departments outside the Division.

The following Departments of Instruction are included in this Division:

| | | | |
|---|---|---|---|
| Botany | Philosophy | Chemistry | Physics |
| Geology | Psychology | Mathematics | Zoology |

NOTE: The place of the Department of Education is indicated above under the Division of the Humanities.

* In this connection the School of Public Administration is considered a Department of Instruction.

# DESCRIPTIONS OF COURSES

In this section are listed and described all courses offered in the College of Arts and Sciences, with lists of courses offered in the General College which precede the work in the College of Arts and Sciences.

In foot-notes to each Department are shown the various requirements for majors.

## NOTES ON THE METHOD OF NUMBERING AND COUNTING COURSES

The work of the University, except in the School of Law, is arranged and offered on the quarter system, the regular session being divided into three approximately equal parts called the fall, winter, and spring quarters. The summer session of twelve weeks is divided into two terms of six weeks each.

Work is valued and credited by quarter hours, *one such hour being allowed for each class meeting a week for a quarter, laboratory or field work counting one hour for each two hours of work in laboratory or field. In the following announcements of courses the numbers in parenthesis following the descriptive titles show the credits allowed in quarter hours.

In the event that required freshmen subjects are taken after a student begins his seventh quarter or required sophomore subjects after he begins his tenth quarter, such subjects carry half credit only. This rule applies to the class registered as freshmen in the year 1925-1926 and to all later registrants.

**Courses numbered from 1 to 10 are for freshmen only, from 11 to 20 are ordinarily for freshmen and sophomores, from 21 to 40 for sophomores, from 41 to 50 for sophomores (but open to juniors or seniors), from 51 to 100 for juniors and seniors, from 101 to 200 for advanced undergraduates and graduates, from 201 to 400 for graduates only. Courses numbered 301 to 400 are research courses. Undergraduates may not take courses numbered above 200 except by special permission of the instructor in the course and the head of the department. Courses numbered from 1 to 100 carry no credit towards any advanced degree.

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* In the case of elementary course in foreign language taken by those who do not qualify for the regular freshman courses of collegiate grade the work is counted towards a degree as of the same value as the regular freshman courses.

** Courses in chemistry for undergraduates are grouped by decades under the headings inorganic, analytical, organic, etc.

## BIBLICAL HISTORY AND LITERATURE

### Courses for Undergraduates

58. THE GREEK NEW TESTAMENT. (5). Prerequisite, Greek 21-22-23.

St. Mark's Gospel, with selections from other parts of the New Testament. This course is designed for students who wish a more intimate knowledge of the Bible in its original language and especially for divinity and Y. M. C. A. students. *Five hours a week, one quarter, on application.* Professor Bernard. (See Greek 58).

85. ARCHAEOLOGY AND THE BIBLE. (3).

The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical History. Attention will be given to the Art and Civilization of the Peoples of the Old Testament, particularly of the Pre-exilic Period. *Three hours a week, fall quarter.* Professor Harland. (See Archaeology 85).

86. HEBREW HISTORY. (3).

A rapid survey of the background of Hebrew History to the fall of Jerusalem and of the development of the early Christian church. Particular attention will be paid to the religions of the early Semites, the development of Hebrew religion from Moses through the prophets into the Post-exilic and Apocryphal periods, and the rise and spread of Christianity in the Roman Empire. *Three hours a week, winter quarter.* Professor Caldwell.

87. LITERARY ASPECTS OF THE BIBLE. (3).

A study of the literary aspects of the Bible in English translations, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Three hours a week, spring quarter.* Professor Howell. (See English 87).

### Course for Graduates and Advanced Undergraduates

158. THE GREEK NEW TESTAMENT. (5). Prerequisite, Greek 58.

The Acts of the Apostles: study of grammar and diction and comparison with English versions; the Gospels, with selections from the Epistles; the principles of textual criticism, sources and history of the Greek text and the versions. *Five hours a week, one quarter, on application.* Professor Bernard. (See Greek 158).

## *DEPARTMENT OF BOTANY

Professors: W. C. COKER, H. R. TOTTEN, J. N. COUCH.
Instructor: J. E. ADAMS.

### Courses for Undergraduates

1-2-3. (Biology 1-2-3). ELEMENTS OF BIOLOGY. (12). Freshman elective. Professors Couch, Costello; Mr. Adams; Assistants.

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* For the A.B. with major in Botany, six courses of the level of 41 or higher are required, but, with the consent of the Department, this number may be reduced by certain courses in Botany taken in the General College; 1 course in Bacteriology and 1 in Zoölogy may, with consent of the Department be considered as part of the Major. There are also required 6 courses in allied sciences, which shall include two 5- or 6-hour quarter courses in each of the following sciences, unless the equivalent has been taken in the General College (it is assumed that at least two such courses would have been taken): Zoölogy, Chemistry, Physics, Geology. Six courses in Departments outside the Division of the Natural Sciences are required.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

41. GENERAL BOTANY. (6). Given in the summer session as s41. Introduction to the structure and classification of plants. *Four lecture and four laboratory or field trip hours a week, fall or spring quarter. Laboratory fee, $4.00.* Professors Coker, Totten, Couch; Assistants.

42. PHARMACEUTICAL BOTANY AND PHARMACOGNOSY. (6). Prerequisite, General Botany. In the college credit is restricted to students preparing to study medicine and those whose major is to be botany.

A study of drug plants; the structure of their parts and contents; the identification of crude drugs and their adulterants. *Three lecture and six laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Totten; Assistants.

43. STRUCTURE AND CLASSIFICATION OF SEED PLANTS. (6). Prerequisite, General Botany, Given in the Summer Session as s43.

A continuation of general botany with more advanced work on seed plants with special attention to local flora and the introduced ornamental plants in the Arboretum and some work in the propagation of cultivated plants. *Three lecture and six laboratory or field trip hours a week, spring quarter. Laboratory fee, $4.00.* Professor Totten.

52. ADVANCED PHARMACOGNOSY. (3). Prerequisite, General Botany and Botany 42. Credit in the college is restricted in the same manner as credit for Botany 42.

Advanced study of vegetable drugs; general methods in microanalysis of powdered drugs; preparations of materials for study; microanalysis of typical drugs and their adulterants and mixtures. *One lecture and four laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Totten.

## Courses for Graduates and Advanced Undergraduates

103, s103. STRUCTURE AND CLASSIFICATION OF THE ALGAE. (5). Prerequisite, General Botany.

A study of the Morphology and classification of the Algae. Lectures, reports, laboratory and field work. The subject may be continued under the same number for more than one quarter as the subject advances, credit being given for each repetition. *Two lecture or report and six laboratory or field work hours a week, spring quarter. Laboratory fee, $4.00.* Professor Couch.

Not offered in the Summer Session of 1936.

111, 112, 113, s114. STRUCTURE AND DEVELOPMENT OF THE FUNGI. (5 each quarter). Prerequisite, General Botany.

A study of the Morphology of the fungi, with special attention to plant diseases, to the culture and development of the lower fungi, and to the identification of mushrooms. Lectures, reports, laboratory and field work. *Two lecture or report and six laboratory or field trip hours a week, fall, winter, and spring quarters, and equivalent hours in the first term of the Summer Session. Laboratory fee, $4.00 a quarter.* Professor Couch.

121, s122 STRUCTURE, GROWTH, AND CLASSIFICATION OF THE LIVERWORTS. (5). Prerequisite, General Botany.

*Two lecture or report and six laboratory or field trip hours a week, winter quarter, and equivalent hours in the Summer Session. Laboratory fee, $4.00.* Professors Coker, Couch.

133. STRUCTURE, GROWTH, AND CLASSIFICATION OF THE MOSSES. (5). Prerequisite, General Botany.

*Two lecture or report and six laboratory or field trip hours a week, fall quarter. Laboratory fee, $4.00.* Professors Coker, Couch.

141. STRUCTURE, GROWTH, AND CLASSIFICATION OF THE FERNS. (5). Prerequisite, General Botany.

*Two lecture or report and six laboratory or field trip hours a week, fall quarter. Laboratory fee, $4.00.* Professor Coker; Miss Holland.

151, 153, s154. ADVANCED WORK IN THE STRUCTURE AND CLASSIFICATION OF SEED PLANTS. (5 each quarter). Prerequisite, General Botany and Botany 43 or Botany s43.

For each of these courses the student is required to collect, prepare herbarium specimens, and classify two plants each from twenty families of seed plants, with notes on the families and sketches to show the principal characteristics of one plant in each of these families. *Two conferences a week with the instructor, fall and spring quarters, and equivalent hours in the second term of the Summer Session. Laboratory fee, $4.00.* Professor Totten.

157. PLANT ANATOMY. (5). Prerequisite, General Botany and Botany 43. Introduction to the anatomy of seed plants; practice in microtechnique. *Two lecture or report and six laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Mr. Adams.

162. STUDIES IN THE HISTORY OF BOTANY. (3). Prerequisite, two courses in botany.

Readings and reports. This course may continue for more than one year as the subject advances, credit being given for each repetition. *Three hours a week, winter quarter.* Professor Coker; Miss Holland.

## *DEPARTMENT OF CHEMISTRY

Professors: EDWARD MACK, JR., **A. S. WHEELER, F. K. CAMERON, J. T. DOBBINS.
Associate Professors: F. H. EDMISTER, H. D. CROCKFORD, R. W. BOST.
Assistant Professor: E. C. MARKHAM.

### Courses for Undergraduates

1-2-3. GENERAL DESCRIPTIVE CHEMISTRY. (12).
Professors Cameron, Dobbins, Edmister, Markham, Mack; Assistants.

4-5. GENERAL DESCRIPTIVE CHEMISTRY. (13.) This course is equivalent to Chemistry 1-2-3. Professors Cameron, Dobbins, Edmister, Markham, Mack; Assistants.

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* For the A.B. with Major in Chemistry (primarily for students preparing for Medicine) these are required: Chemistry 31, 41, 42, 61, 162 and one other course. Six courses in other natural sciences and six courses in departments outside the Division of the Natural Sciences are required also.

For the S.B. in Chemistry there are the following required courses: Chemistry 1-2-3 (or 4-5), 31, 41, 42, 61, 162, 163 (or 171), 91 (or 191), 92 (or 192), 181-182-183; Physics 21-22-23 (or 24-25); Mathematics 22-23 (or 32-33); Botany 41 (or Zoology 41); Geology 43-44; and English 51.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

** Absent on leave, 1935-1936.

31. QUALITATIVE ANALYSIS. (6). Prerequisite, Chemistry 1-2-3 or 4-5.

*Three lecture and six laboratory hours a week, fall or spring quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

41. ELEMENTARY QUANTITATIVE ANALYSIS. (6). Prerequisite, Chemistry 31.

Gravimetric Analysis. Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professor Dobbins; Assistants.

42. ELEMENTARY QUANTITATIVE ANALYSIS. (6). Prerequisite, Chemistry 31.

Volumetric Analysis. Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, winter or spring quarter. Laboratory fee $10.00.* Professors Dobbins, Markham; Assistants.

61. ORGANIC CHEMISTRY: ALIPHATIC SERIES. (6). Prerequisite, Chemistry 31.

*Three lecture and six laboratory hours a week, fall or winter quarter. Laboratory fee $10.00.* Professors Wheeler, Bost.

83. PHYSICAL CHEMISTRY FOR STUDENTS OF BIOLOGY. (5). Prerequisite, Chemistry 1-2-3 or 4-5, 31, 41, 61, and Math. 1, 2, 3. Does not carry credit toward S.B. in Chemistry.

Designed for A.B. Students or students taking pre-medical, pharmaceutical, or biological work. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professor Crockford or Professor Cameron.

91, 92. TECHNICAL QUANTITATIVE ANALYSIS. (6 each). Prerequisite, Chemistry 41, 42.

Quantitative analysis of water, coal, gas, silicates, iron, steel, alloys, paints, and cotton products. *Three lecture and six laboratory hours a week, winter and spring quarters. Laboratory fee, $10.00 a quarter.* Professor Markham.

### Courses for Graduates and Advanced Undergraduates

143. THEORETICAL ANALYTICAL CHEMISTRY. (6). Prerequisite, Chemistry 31, 41, 42.

A detailed study of the reactions of all the common metallic and acidic ions from the standpoint of mass action, solubility product, and oxidation and reduction. This course is designed to give a comprehensive review of inorganic and analytical chemistry. *Six hours a week, spring quarter.* Professor Dobbins.

151. ADVANCED INORGANIC CHEMISTRY. (5). Prerequisite, Chemistry 1-2-3 or 4-5, 31, and one other course in Chemistry.

Selected chapters in inorganic chemistry which may be changed from year to year, to illustrate and demonstrate modern methods of investigation. Private readings and library research in lieu of laboratory. Designed for students preparing to become professional chemists or to enter professions in which chemistry is an essential tool. *Four lectures and a symposium a week, fall quarter.* Professor Cameron.

162. ORGANIC CHEMISTRY: AROMATIC SERIES. (6). Prerequisite, Chemistry 61.

This course carries no graduate credit for students who have their majors in Chemistry. *Three lecture and six laboratory hours a week, winter or spring quarter. Laboratory fee, $10.00.* Professors Wheeler, Bost.

163. QUALITATIVE ORGANIC ANALYSIS. (6). Prerequisite, Chemistry 61, 162.

A study of the theory of solubility, homology, class reactions, and the functional groups in organic compounds. Individual substances and complex mixtures are studied. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professor Bost.

164. CHEMISTRY OF DYESTUFFS. (5). Prerequisite, Chemistry 61, 162.

Lectures and laboratory. *Three lecture and four laboratory hours a week, winter quarter.* (1936 and alternate years). *Laboratory fee, $10.00.* Professors Wheeler, Bost.

165. ADVANCED TOPICS IN ORGANIC CHEMISTRY. (5). Prerequisite, Chemistry 61, 162.

*Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $10.00.* (1937 and alternate years.) Professors Wheeler, Bost.

167, 168. ADVANCED ORGANIC PREPARATIONS. (3 each). Prerequisite, Chemistry 61, 162.

Laboratory course. *Six laboratory hours a week, any two quarters. Laboratory fee, $10.00 a quarter.* Professors Wheeler, Bost.

169. QUANTITATIVE ORGANIC ANALYSIS. (3). Prerequisite, Chemistry 163.

Quantitative determination of carbon, hydrogen, nitrogen, halogens, sulphur, and a few other elements by well established methods. *Six laboratory hours a week, winter or spring quarter. Laboratory fee, $7.00.* Professors Wheeler, Bost.

171. CHEMISTRY OF FOODS. (6). Prerequisite, Chemistry 42, 61.

The composition, digestion, absorption, and metabolism of foods. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Bost.

181-182-183. PHYSICAL CHEMISTRY. (18). Prerequisite, Chemistry 1-2-3 (or 4-5), 31, 41, 42, 61, 162 and satisfactory courses in physics and the calculus.

An introductory study of the properties and behavior of gases, liquids and crystals; elementary thermodynamics; homogeneous and heterogeneous equilibrium; solution theory; chemical kinetics; elementary principles of electrical conduction, galvanic cells, etc.; photochemistry and atomic structure. *Four lecture and four laboratory hours a week, fall, winter, and spring quarters, Laboratory fee, $7.50 a quarter.* Professors Crockford, Mack.

191, 192. CHEMICAL TECHNOLOGY. (6 each). Prerequisite, Chemistry 61, 162, 91, 92.

The methods and economics of the chemical industries. Lectures and laboratory work. *Three lecture and six laboratory hours a week, fall and winter quarters. Laboratory fee, $10.00.* Professor Cameron.

## *DEPARTMENTS OF CLASSICAL LANGUAGES AND LITERATURES

Professors: **GEORGE HOWE, W. S. BERNARD, G. A. HARRER, J. P. HARLAND.
Visiting Professor: H. B. DEWING.
Associate Professor: S. G. SANDERS. Instructor: B. W. DAVIS.

### GREEK

#### Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE GREEK. (9). Professor Bernard.

NOTE: Attention is called to Greek 14-15-16, designed for upperclassmen who have fulfilled the requirement in another foreign language.

11-12-13. INTERMEDIATE GREEK. (9). Professor Bernard.

14-15-16. SPECIAL COURSE IN ELEMENTARY GREEK. (9). Professor Sanders.

21-22-23. ADVANCED GREEK. (9). Prerequisite, Greek 1-2-3 or 11-12-13 or the equivalent. Professor Bernard.

53. INTRODUCTION TO GREEK DRAMA. (5). Prerequisite, Greek 21-22-23.

One tragedy and one comedy will be studied. *Five hours a week, one quarter, on application.* Professor Bernard or Professor Sanders.

58. THE GREEK NEW TESTAMENT. (5). Prerequisite, Greek 21-22-23.

St. Mark's gospel, with selections from other parts of the New Testament. This course is designed for students who wish a more intimate knowledge of the Bible in its original language and especially for divinity and Y. M. C. A. students. *Five hours a week, one quarter, on application.* Professor Bernard.

71. GREEK HISTORY. (5). Prerequisite, Greek 21-22-23 or equivalent.

Selections from the Greek Historians, chiefly Herodotus, will be read and reports will be made on related topics in Greek History. *Five hours a week, fall quarter, on application.* Professor Harland.

81. THE GREEK ORATORS. (5).

Select orations from Lysias and Demosthenes. *Five hours a week, winter quarter.* (1936 and alternate years.) Professor Harland.

#### Courses for Graduates and Advanced Undergraduates

112. HOMER: ADVANCED COURSE. (5). Prerequisite, Greek 11-12-13.

Rapid reading of the Odyssey with Homeric Study. *Five hours a week, one quarter, on application.* Professor Harland or Professor Bernard.

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* Students interested in having their major in Greek or in Latin should consult the Department in the last quarter of their sophomore year.

Those students who plan to teach Greek or Latin in public high schools should read the footnote at the bottom of page 67.

** Absent on leave, 1935-1936.

153-154. GREEK DRAMA: ADVANCED COURSE. (10). Prerequisite, Greek 53.

An extended reading and study of the Greek drama, with lectures on the origin, history, and structure of the drama. *Five hours a week, two quarters, on application.* Professor Bernard or Professor Sanders.

158. THE GREEK NEW TESTAMENT. (5). Prerequisite, Greek 58.

The Acts of the Apostles: study of grammar and diction and comparison with English versions; the Gospels, with selections from the Epistles; the principles of textual criticism, sources and history of the Greek text and the versions. *Five hours a week, one quarter, on application.* Professor Bernard.

171. GREEK HISTORY. (5). Prerequisite, Greek 71.

Selections from Thucydides will be read and the history of Athens and Sparta will be reviewed with a view to explaining the underlying causes of the Peloponnesian War. *Five hours a week, winter quarter, on application.* Professor Harland.

## *LATIN

### Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE LATIN. (9).
Mr. Davis.

NOTE: Attention is called to Latin 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE LATIN. (9).
Professor Dewing.

14-15-16. SPECIAL COURSE IN ELEMENTARY LATIN. (9).
Professor Howe.

21-22-23. ADVANCED LATIN. (9). Prerequisite, four units of High School Latin, or Latin 1-2-3 or 11-12-13. Professor Sanders.

24-25. ROMAN LAW. (6). Prerequisite, Latin 21.

The course is a sophomore option of A.B.-LL.B. students, and is open to other students who have satisfied the prerequisite.

The course deals with the general principles and the historical development of Roman law. The work consists of the translation of selected passages in the legal literature, readings, and lectures. *Three hours a week, winter and spring quarters.* Professor Harrer.

51. ROMAN SATIRE. (5). Prerequisite, Latin 21-22-23.

Readings from Horace, Petronius, Persius, Juvenal; occasional lectures. This course alternates with course 52. *Five hours a week, fall quarter.* (1936 and alternate years.) Professor Sanders.

52. CICERO'S LETTERS. (5). Prerequisite, Latin 21-22-23.

The reading of selected letters and discussions of the history and politics of the time. This course alternates with course 51. *Five hours a week, fall quarter.* (1937 and alternate years.) Professor Sanders.

71. COURSE FOR TEACHERS. (5). Latin 21-22-23.

The course is concerned with pronunciation, forms, syntax, prosody, the art of translating, methods of instruction. *Five hours a week, fall quarter.* Professor Howe.

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* See notes on the major and teacher-training under Greek.

### Courses for Graduates and Advanced Undergraduates

101. ROMAN HISTORICAL LITERATURE. (5). Prerequisite, Latin 21-22-23.

A study of the structure, purposes, and methods of the most significant works. Translation and reading in English from the literature, reports, lectures. *Five hours a week, fall quarter.* (1936 and alternate years.) Professor Harrer.

102. ROMAN DRAMATIC LITERATURE. (5). Prerequisite, Latin 21-22-23.

A study of the development of Latin comedy and tragedy. Reading of selected plays. The course alternates with course 101. *Five hours a week, fall quarter.* (1937 and alternate years.) Professor Harrer.

103. PROSE WRITINGS OF THE REPUBLIC. (5). Prerequisite, Latin 21-22-23.

An account of the development of prose literature from Cato to Cicero, with special studies of certain types of readings from the chief works. *Five hours a week, winter quarter.* Professor Sanders.

104. CICERO: POLITICAL CAREER AND WORKS. (5). Prerequisite, Latin 21-22-23.

A study of Cicero, as statesman and advocate. Selected letters, as well as a number of orations, will be read. *Five hours a week, spring quarter.* Professor Harrer.

105. THE SATIRES OF JUVENAL. (5). Prerequisite, Latin 21-22-23.

Translation and interpretation, with a survey of the history of the period. *Five hours a week, fall quarter.* Professor Dewing.

### Courses Requiring no Knowledge of the Greek or Latin Language

The following courses in classical literature and civilization are especially designed to supply the necessary foundation for those who, without a reading knowledge of the ancient languages, wish a broader culture, or plan to specialize in modern literature, history, art, etc. When properly approved, they will be allowed to count as part of the major requirement in other departments. They may be taken also to satisfy the requirement of a minor in literature. (See also under General and Comparative Literature, page 79).

### Courses for Undergraduates

61. GREEK LITERATURE. (5).

A study of the masterpieces of Greek literature in English translation, with special reference to the contribution of Greece to modern thought. *Five hours a week, fall quarter.* Professor Bernard.

62. LATIN LITERATURE. (5).

A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Howe.

75. GREEK CIVILIZATION. (5).

The achievements of the ancient Greeks and their contributions to the modern world in art, architecture, medicine, science, politics, and other fields will be studied. For a background, their house, dress, education, games,

theatre, religion, etc. will be considered. Illustrated lectures and discussions. *Five hours a week, winter or spring quarter.* Professor Harland.

76. ROMAN CIVILIZATION. (5).

The course deals with the public institutions, the political and social conditions, and the private life of the Romans, their buildings, living conditions, amusements, manners and customs, and religion. *Five hours a week, spring quarter.* Professor Harrer.

85. ARCHAEOLOGY AND THE BIBLE. (3).

The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical History. Attention will be given to the Art and Civilization of the Peoples of the Old Testament, particularly of the Pre-exillic Period. *Three hours a week, fall quarter.* Professor Harland.

91, 92. GENERAL ARCHAEOLOGY. (5 each).

An introductory course in which the art and architecture of Egypt, Mesopotamia, Greece, and Rome will be studied. Illustrated lectures on the monuments will be supplemented by lectures on the history and civilization of the various peoples. Discussions and required reading. *Five hours a week, fall and winter quarters.* Professor Harland.

93. GREEK ARCHAEOLOGY. (5).

This course will deal primarily with Greek sculpture. The historical development of the art of Greece will be studied, and Greek art will be presented as one phase of the civilization of the ancient Hellenes. *Five hours a week, spring quarter.* Professor Harland.

## Courses for Graduates and Advanced Undergraduates

103, (113). THE GREEK EPIC. (5).

Epic as a literary form; Homer, the Iliad and Odyssey; origins, the Mycenaean civilization, literary characteristics, comparison of the chief English translations, comparison with Norse, Latin, Italian, and English epic. *Five hours a week, on application.* Professor Bernard.

107 (155). GREEK DRAMATIC LITERATURE. (5).

A course designed to embrace the origin, development, technique, and content of Greek drama, with emphasis on tragedy. An interpretation of Greek life and thought as contributing to world progress. *Five hours a week, spring quarter.* Professor Bernard.

112 (111). THE LATIN EPIC. (5).

The history of the Latin Epic; detailed study of Vergil, the Aeneid. *Five hours a week, spring quarter.* Professor Howe.

115 (112). THE POETRY OF OVID. (5).

The reading in English of the complete works of Ovid; special critical studies in the *Metamorphoses.* The influence of Ovid on later writers. *Five hours a week, fall quarter.* Professor Howe.

## *DEPARTMENT OF ECONOMICS AND COMMERCE

Professors: D. D. CARROLL,**C. T. MURCHISON, E. E. PEACOCK, E.W. ZIMMERMAN, R. J. M. HOBBS, J. B. WOOSLEY, C. P. SPRUILL, G. T. SCHWENNING, ***CLARENCE HEER, H. D. WOLF, D. H. BUCHANAN.

Visiting Professor: H. VON BECKERATH.

Associate Professors: M. D. TAYLOR, J. M. LEAR, M. S. HEATH, **W. F. FERGER, **J. G. EVANS, R. H. SHERRILL, E. M. BERNSTEIN.

Acting Associate Professor: D. J. COWDEN.

Instructors: R. S. WINSLOW, F. H. ARNOLD, H. M. DOUTY, C. M. ANDERSON, F. S. WILDER.

## ECONOMICS

### Courses for Undergraduates

21-22-33. GENERAL ECONOMICS. (9). Not open to Freshmen.

For description see Economics 31-32. Professors Lear, Wolf, Evans, Cowden; Messrs. Winslow, Anderson, Douty, Wilder, McFerrin.

31-32. GENERAL ECONOMICS. (10). Not open to Freshmen.

This course is planned to give a general understanding of the organization of our economic life and the fundamental principles underlying it. An analysis is made of production, distribution, and consumption, of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, labor problems, and economic reform. Sophomore elective.

If a student has not had Economics 21-22-23 or its evuivalent before entering the College of Arts and Sciences he may satisfy this requirement by taking Economics 61-62 in his junior year. *Five hours a week, winter, spring, and spring, fall quarters.* Professors Lear, Wolf, Evans, Cowden; Messrs. Winslow, Anderson, Douty, Wilder, McFerrin.

35. ECONOMIC HISTORY. (5). Not open to Freshmen.

A survey of the steps by which economic activities have evolved from primitive beginnings into the complicated capitalistic economy of today. Special emphasis upon the development of the wage system, the Industrial Revolution, the expansion of markets, the ebb and flow of industrial activities, the relation of industrial development to political policy, as they have manifested themselves in England and in the United States. *Five hours a week, every quarter.* Professor Heath; Mr. Wilder.

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* Courses in commerce are not to be taken for credit in the College of Arts and Sciences and are, therefore, not described here. See the special catalogue of the School of Commerce.

For an A.B. degree with a major in economics, a student must complete Economics 21-22-23 or its equivalent in the General College and six courses, including the following: Economics 81-82, 131, and either Economics 191 or 195. The other two courses may be selected from any offerings of the department other than Economics 35 or 137. If a student has not had Economics 21-22-23 or its equivalent before entering the College of Arts and Sciences he may satisfy this requirement by taking Economics 61-62 in his junior year. The student will also be required to select five to seven courses from related departments in the Division of the Social Sciences and five to seven courses from the Divisions of the Natural Sciences and the Humanities.

** Absent on leave, 1935-1936.

*** Absent on leave, winter and spring quarters, 1936.

61-62. GENERAL ECONOMICS. (10). Not open to Freshmen or Sophomores.

This course is planned for students in the Upper College, other than those whose major is economics, who desire an elective in the principles of economics. The field covered is the same as in Economics 31-32 but at a more advanced level and in a more critical way. A student may not count for credit two groups from 21-22-23, 31-32, and 61-62. *Five hours a week, fall and winter quarters.* Professor Evans.

81-82. PRINCIPLES OF MONEY AND BANKING. (10). Prerequisite, Economics 21-22-23 or equivalent.

A general study of the principles, functions, and forms of money and credit, followed by analyses of current money and credit problems. The second half of the course is devoted to a study of the theory of commercial banking with particular respect to its application and development in the United States. *Five hours a week, fall, winter, and winter, spring quarters.* Professors Woosley, Bernstein; Mr. Winslow.

## Courses for Graduates and Advanced Undergraduates

121. RISK AND RISK-BEARING. (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the risk element in modern industry together with the measures which have been devised to meet it. This course should precede the study of insurance. *Five hours a week, fall quarter.* Professor Lear.

124. PRINCIPLES OF MARKETING. (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical study of marketing organization and operation. Among the topics discussed are: methods of approach to the study of marketing; the marketing of farm products; the marketing functions; trade channels; direct marketing; the services performed by brokers, sales agents, auctions, wholesalers, and different types of retailers; commodity exchanges and future trading; price policies; price maintenance; brand policies; market research; problems relating to marketing costs; and scientific marketing management. Emphasis is placed on recent developments in retailing such as the growth in economic importance of centrally owned chain store organizations and coöperative chains. In the study of the marketing of farm products special attention is given to coöperative marketing; and the work of the Federal Farm Board and the Farm Credit Administration is examined critically. Study is made likewise of other governmental bureaus which influence marketing. *Five hours a week, fall quarter.* Professor Taylor.

131. ECONOMIC THEORY. (5). Prerequisite, Economics 21-22-23 or equivalent.

The primary purpose of this course is the development of greater facility upon the part of the student in the use of economic theory as a tool in the solution of economic and business problems. Supplementary thereto, the assumptions and limitations of economic theory are analyzed. Specific problems are employed to test the utility of theory as a framework of thought for their solution. Required of all seniors in the School of Commerce and of all whose major is Economics. *Five hours a week, every quarter.* Professor Spruill.

137. ECONOMIC DEVELOPMENTS IN THE ORIENT SINCE 1800 (5).

A study of the foundations of economic life and of modern economic developments in Japan, China, and India. Special attention is given to the rise of modern industry, commerce, and finance, and to the effect of these upon the indigenous cultures. *Five hours a week, spring quarter.* Professor Buchanan.

141. PUBLIC FINANCE. (5). Prerequisite, Economics 21-22-23 or equivalent.

A general study of government business covering the principles involved in public revenues and expenditures—local, state, and national; a treatment of the just distribution of public charges and their incidence; and a study of the growth and organization of modern tax systems. *Five hours a week, fall quarter.* Professor Heer.

142. FISCAL ORGANIZATION AND ADMINISTRATION. (5). Prerequisite, Economics 141.

The first part of the course deals with contemporary types of state and local financial organization. The relative advantages of centralized as contrasted with decentralized types are discussed. The second part of the course deals with financial methods and procedure. The topics covered include budgets and budget making, budgeting and auditing control, treasury management, debt administration, assessment procedure, purchasing, and state administrative control over local finances. *Five hours a week, winter quarter.* Professor Heer.

143. PROBLEMS IN PUBLIC FINANCE. (5). Prerequisite, Economics 141.

An advanced critical study of certain present problems in government finance. *Five hours a week, spring quarter.* Professor Heer.

145-146. PROBLEMS OF MODERN INDUSTRIALISM. (10). Prerequisite, Economics 21-22-23 or equivalent.

This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against this background of modern capitalism the issues and trends of public policy with respect to economic organization in America and Europe are compared and appraised. *Five hours a week, fall and winter quarters.* (Alternates with Economics 257-258; will be given in 1936-1937). Professor von Beckerath.

151. TRANSPORTATION. (5). Prerequisite, Economics 21-22-23 or equivalent.

A general study, from the historical and critical points of view, of railway transportation in such representative countries as Great Britian, France, Italy, Germany, and the United States; with some consideration of passenger and freight traffic and rates, and the State's relation to railways. *Five hours a week, fall quarter.* Professor Bernstein.

153. PUBLIC UTILITIES. (5). Prerequisite, Economics 21-22-23 or equivalent.

The first part of the course is historical and descriptive, covering the physical and technical development and the corporate and financial set-up of public service corporations other than railroads, including electric light and power

companies, telegraph companies, street railways, motor vehicle carriers, and similar utilities. The second part of the course deals with methods of protecting the public interest in utility services. Among the topics considered are: the legal bases of utility regulation, state and federal regulatory agencies, valuation and rate of return, principles of rate making, capitalization and security regulation, the problem of the holding company, and public ownership. *Five hours a week, spring quarter.* Professor Bernstein

161. THEORY OF INTERNATIONAL TRADE. (5). Prerequisite, Economics 21-22-23 or equivalent.

In this course international trade is viewed from the standpoint of the political economist, emphasizing the social aspects. After an historical study of the past and a critical analysis of the present foreign commerce of the United States and principal competitors, an effort is made to apply to a survey of our foreign markets and of our foreign sources of supply the general principles of economic theory in so far as they pertain to international trade. Following this the payment balances of this country and of other leading countries engaged in world commerce are critically studied. Finally, the most important theories of international trade are reviewed in the light of historical development. *Five hours a week, fall quarter.* Professor Zimmermann.

165. COMMERCIAL POLICY OF MODERN NATIONS. (5). Prerequisite, Economics 161.

After a general survey of international commercial policy up to the close of the Napoleonic Wars, a more detailed comparative study of the commercial policy of the leading nations during the last hundred years is made. The following countries are included: United States, Great Britain, France, Germany, Russia, Italy, Canada, Argentina, and India. Special attention is given to tariff problems, colonial policies, and to imperialism. The present world resources situation and its probable effect on future commercial policy is appraised. *Five hours a week, spring quarter.* (Alternates with Commerce 169; will be given in 1937.) Professor Zimmermann.

170. ECONOMIC STATISTICS. (5). Prerequisite, Mathematics 1-2-3, Economics 21-22-23 or equivalent.

This course is designed to give an understanding of statistical technique used by economists and business men. Among the topics included are collection of data, tabular and graphic presentation, averages, index numbers, time series analysis, and simple correlation. Emphasis is put on the meaning and limitations of statistical methods rather than techniques of computation and mathematical proofs. The laboratory work is designed to give practice in the use of the processes studied, together with an interpretation of the results found. *Three lecture and four laboratory hours a week, every quarter. Laboratory fee, $1.00.* Professor Cowden.

171. ADVANCED ECONOMIC STATISTICS. (5). Prerequisite, Economics 170 or equivalent.

This course is designed to give the student the ability to use some of the more exact and more technical tools, such as fitting of the normal curve, curvilinear trends for time series, changing the seasonal variation, and multiple correlation. Sampling theory is further considered. The course also seeks to give acquaintance with practical work and the current literature in statistics. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $1.00.* Professor Cowden.

185. BUSINESS CYCLES. (5). Prerequisite, Economics 21-22-23 or equivalent and 81.

A study of the alternating periods of depression and prosperity. The underlying causes of panics and crises. Fluctuations in price, trade volume, and physical production. *Five hours a week, winter or spring quarter.* Professor Bernstein.

191. AN INTRODUCTION TO THE LABOR PROBLEM. (5). Prerequisite, Economics 21-22-23 or equivalent.

To the extent that the competitive wage system fails (a) to provide for the laborer an adequate basis for a decent living and (b) to draw from him the services he ought to render to industry, there appears to be a "labor problem." The purpose of this course is to make an analytic survey of the modern labor problem in its major aspects, such as unemployment, low wages, industrial accidents and diseases, overstrain and superannuation, and the status of the worker in industrial society. Trade unionism and the labor movement and intervention by the State in behalf of the worker, and social methods of coping with the problems of labor are also surveyed. *Five hours a week, fall or winter quarter.* Professor Wolf.

192. LABOR AND SOCIAL CONTROL. (5). Prerequisite, Economics 191.

An advanced course in social methods of coping with labor problems. These fall roughly into three classes: (a) self-help on the part of the workers, which embraces trade unionism, labor political activity, and consumers' coöperation; (b) employers' policies, such as welfare work and paternalism, profit-sharing, and company unionism; and (c) intervention by public authority, as through labor legislation, conciliation and arbitration, and judicial limitation of private property rights. In so far as possible the various topics will be studied in terms of the Southern labor situation. *Five hours a week, spring quarter.* Professor Wolf.

195. THEORIES OF ECONOMIC REFORM. (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Single Tax, and Social Insurance. *Five hours a week, every quarter.* Professor Carroll.

197. GOVERNMENT AND BUSINESS. (5). Prerequisite, Economics 21-22-23 or equivalent.

This course deals with the control exercised by government over business operations. Emphasis is placed on legal control. Attention in some detail is given to trade regulations, public utilities, and the operation of the federal anti-trust laws. The course includes a study of the control of business by the states under their police powers and by the federal government under the interstate commerce and taxing provisions of the federal constitution. Governmental participation in business is treated to a limited extent as is the attitude of government toward labor. The emergency legislation of 1933 and the extensive governmental activities thereunder are studied. *Five hours a week, spring quarter.* Professor Hobbs.

## *DEPARTMENT OF EDUCATION

Professors: **M. C. S. NOBLE, ***N. W. WALKER, E. W. KNIGHT, M. R. TRABUE, A. M. JORDAN, W. J. MCKEE.
Associate Professors: C. E. PRESTON, P. C. FARRAR, H. F. MUNCH, HUGO GIDUZ.
Assistant Professors: J. M. GWYNN, †A. K. KING.
Instructor: H. P. SMITH.

### IN EXTENSION

Professor: GEORGE HOWARD.
Associate Professor: R. W. MORRISON.
Assistant Professor: MRS. J. G. BEARD.

### Courses for Undergraduates

31. GENERAL INTRODUCTION TO THE STUDY OF EDUCATION. (5). Required of all prospective high school teachers.

This course attempts to aid prospective teachers in obtaining a general understanding of the philosophy and purposes of public education. It introduces the broad outlines of the history, traditions, organization, and purposes of public schools. An attempt is made to help each student to examine his own abilities, limitations, interests, and personality in the light of requirements for successful teaching of high school students. Textbooks, class exercises, outside observations and readings, and special reports will be required. *Five hours a week, every quarter.* Professors Trabue, McKee.

71. EDUCATIONAL PSYCHOLOGY. (5). Required of all prospective high school teachers.

To consider critically such topics as the original nature of man, heredity versus environment, kinds of learning and factors influencing learning, idividual differences, mental hygiene, and mental measurements is the purpose of this course. Lectures, textbooks, laboratory. *Four lecture and two laboratory hours a week, every quarter.* Professor Jordan.

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* Students who plan to teach in high schools should consult the head of the Department of Education before registering for their junior year. Freshmen and sophomores who know that they wish to teach are advised to consult the Department of Education, as it is almost impossible to meet the legal requirements for high school teaching certificates in certain fields without choosing General College courses in the light of these requirements.

The Class A High School Teaching Certificate in North Carolina requires, in addition to thorough training in the academic subjects to be taught and in the materials and methods used in teaching these subjects, special courses in educational psychology, the principles of secondary education, and one term of practice teaching. Because of limited practice teaching facilities, those who are late in consulting the Department of Education may not be able to secure their practice teaching, in which case only a B Certificate is obtainable.

Required professional courses for certification, or for A.B. with Major in Education: Education 31, 71, 98 (or 99); one or two special methods courses, depending upon the nature of the certificate sought, and one course in directed teaching of the subject chosen; for candidates preparing in only one field, an additional course in Education in place of the second methods course, to total in either case six courses in Education.

NOTE: Students intending to prepare for teaching are advised to consult with members of the faculty in Education as early in their college career as possible, both to give notice of their intention and to see that their courses in the subjects they intend to teach are properly lined up. Generally, it will be necessary or advisable to prepare to teach in two fields.

** Kenan Professor Emeritus.

*** Absent on leave, 1935-1936. Died February 13, 1936.

† Absent on leave, 1935-1936.

82. DIRECTED TEACHING OF HIGH SCHOOL ENGLISH. (5). Prerequisite, courses to be determined by the instructor.

The purpose of this course is to provide actual practice in teaching high school classes in English under supervision. It will include observation of teaching, study of the material taught, and preparation of lesson plans. *Five hours a week, every quarter.* Professor Farrar.

84. DIRECTED TEACHING OF HIGH SCHOOL FRENCH. (5). Prerequisite, courses to be determined by the instructor.

In this course the student carries out as far as possible the plan evolved in Education 183. From passive participation through a period of observation, the student gradually reaches the active stage of teaching. During the latter half of the term he has sole charge of the class, always of course, under the supervision of the instructor. Daily lesson plans; conferences for the discussion of each day's work. *Five hours a week, every quarter.* Professor Giduz.

86. DIRECTED TEACHING OF THE SOCIAL STUDIES. (5). Prerequisite, courses to be determined by the instructor.

In this course the student will at first attend a high school class in history or community civics and observe the methods and technique of conducting the class. After he has observed and prepared the work of the class long enough to become familiar with its operation he will be required to work out a daily lesson plan for each class observed. When, in the judgment of the instructor, the student is sufficiently familiar with the correct methods of procedure, he will be permitted to conduct the class under the personal supervision of the instructor. After each class conducted by the student teacher his work will be discussed and criticised in conference with the supervisor. *Five hours a week, every quarter.* Professor King.

88. DIRECTED TEACHING OF HIGH SCHOOL LATIN. (5). Prerequisite, courses to be determined by the instructor.

The teaching of Latin in the practice school will be observed closely by students for a time; later the work of the classes observed will be fully discussed. After such intensive observation work, the students will be required to work out individual lesson plans for the classes observed. When the instructor believes that the students have had sufficient time to learn the correct method of procedure, he will turn over a class to each one of them to handle independently under his supervision. Critical reports and discussions of the class work of each student teacher will follow. *Five hours a week, every quarter.* Professor Gwynn.

90. DIRECTED TEACHING OF HIGH SCHOOL MATHEMATICS. (5). Prerequisite, courses to be determined by the instructor.

This course familiarizes the student with the actual classroom situation. It consists of the following steps: mastery of subject matter to be taught; preparation for teaching by observation, making lesson plans and conference with the instructor; actual teaching; and discussion with the instructor of techniques used and results obtained. Teaching by the student is the feature of the course. *Five hours a week, every quarter.* Professor Munch.

92. DIRECTED TEACHING OF HIGH SCHOOL SCIENCE. (5). Prerequisite, courses to be determined by the instructor.

The object of this course is to give the student familiarity with the science classroom and laboratory in operation. Entering first as an observer he will gradually be allowed to take over more and more of the work as he is considered qualified to do so. Conferences with the instructor will be an important part of this course. *Five hours a week, every quarter.* Professor Preston.

98. GENERAL METHODS IN SECONDARY EDUCATION. (5). Required of all prospective high school teachers who do not offer Education 99. Prerequisite, Education 71.

The first half of this course deals with the aims of high school teaching and the outcome of learning. In the second half an evaluation of the various techniques and methods of instruction commonly used in high schools is attempted. The course includes a limited amount of observation in the training school. *Five hours a week, winter quarter.* Professor McKee.

99. PRINCIPLES OF SECONDARY EDUCATION. (5). Required of all prospective high school teachers who do not offer Education 98. Prerequisite, Education 71.

A study of the American high school, its evolution, organization, administration, functions, and problems. Special emphasis will be laid on the public high school in North Carolina. This course is designed especially to meet the needs of those students who are looking toward teaching positions in secondary schools. Textbooks, lectures, assigned readings, and reports. *Five hours a week, fall or spring quarters.* Professors Trabue, McKee.

## Courses for Graduates and Advanced Undergraduates

101. INTRODUCTORY COURSE IN SCHOOL ADMINISTRATION. (5).

This course will consider the most important problems of school administration, especially as these problems bear on the success of the teacher's work. Students without teaching experience, or teachers without a knowledge of administrative problems, should not register for the more specialized courses in the field of administration until after completing this course. Textbooks, observations, and discussions. *Five hours a week, fall quarter.* Professor Trabue.

103. ELEMENTS OF STATISTICAL METHODS. (5). Prerequisites, Education 71 or Psychology 21-22-23.

This course provides the statistical training needed for understanding reports of modern educational social investigations. Methods of collecting data for educational, psychological, and social studies, procedures and devices used in tabulating data, calculating measures of average, dispersion, and correlations, and dangers in interpreting calculated index numbers will be given special attention. Readings, demonstrations, daily problems, special reports, and critical discussions. *Five hours a week, winter quarter.* Professors Jordan, Trabue.

105. GUIDANCE AND ADMINISTRATION OF PUBLIC SCHOOL PUPILS. (5). Prerequisite, four full courses in education, including one in administration, two years of successful teaching experience.

This course undertakes not only to acquaint the student with the extensive literature of scientific research in pupil personnel work, but also to develop through actual handling of individual records, reports, and materials as many as possible of the important skills required of the principal in the classification and promotion of pupils, in program making, in organization of pupil activities, in student government, in athletics, etc. *Five hours a week, spring quarter.* Professor McKee.

106. GENERAL PRINCIPLES OF OCCUPATIONAL DIAGNOSIS AND GUIDANCE. (5). Prerequisite, practical experience and at least two years of psychology and education.

This course is designed to provide a broad introduction to this field for

graduate students who have had adequate training in general psychology, and some practical experience in business, industry, or a profession. Two fairly distinct groups of students are invited to register for the course: (a) those who plan to become personnel or placement officers in public employment offices, industrial and commercial firms, schools, or colleges; (b) teachers, supervisors, and administrative school officers. *Five hours a week, fall quarter.* Professor Trabue.

108. STATE SCHOOL ORGANIZATION. (5).

*Five hours a week, spring quarter.* Professor Howard.

121. EXTENSIVE READING PROGRAMS FOR HIGH SCHOOL PUPILS.

The object of the course is to study the reading interests of the adolescent group in classical, standard, and modern books and to demonstrate how an extensive reading program may be correlated with the course of study. *Five hours a week, winter quarter.* Professor Beust.

142. HISTORICAL FOUNDATIONS OF MODERN EDUCATION. (5).

This course traces the development of some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of the leading educational theorists, and by institutional practice. Textbooks, lectures, investigations, and reports. *Five hours a week, winter quarter.* Professor Knight.

143. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES. (History 170). (5).

The social and educational institutions and practices of the United States are traced through: (a) the period of transplanting of European institutions; (b) the period of modifications of institutional life to meet new conditions; and (c) the period of development of a social and an educational system of free common schools, high schools, and higher and technical education in harmony with the political and social ideals and institutions of America. Textbook, lectures, investigations, and reports. *Five hours a week, fall quarter.* Professor Knight.

†145. COMPARATIVE EDUCATION. (5).

This is a course in comparative education with emphasis upon the modern educational experience of and the more significant educational movements in certain foreign countries. Attention will be given to education as a means of national advancement and to the development of retarded national cultures through education. *Five hours a week, spring quarter.* Professor Knight.

152. SUPERVISION OF INSTRUCTION IN ELEMENTARY LANGUAGE ARTS.

Oral and written expression, spelling, penmanship, and grammar will be considered during the first half of this course. Reading and children's literature will be discussed during the second half of the course. The techniques and procedures available for improving the quality of instruction in these fields will be given primary attention. *Five hours a week.* Professor McKee.

154. SUPERVISION OF INSTRUCTION IN THE SOCIAL STUDIES.

The problems of supervising elementary school teachers of history, geography and citizenship will be discussed in this course. *Five hours a week.* Professor King.

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† Not given, 1935-1936.

155. SUPERVISION OF INSTRUCTION IN THE NATURAL SCIENCES.

Nature study and elementary science, including physical geography, will be considered in this course. *Five hours a week.* Professor Preston.

†160. CURRICULUM CONSTRUCTION. (5).

The construction and organization of the curricula of the elementary and secondary schools when based upon human needs. Includes consideration of the teacher's function in curriculum construction, objectives of the school subjects, sources of curricular material and criteria for evaluating it, selection and organization of the pupil-activities through which the objectives may be attained. *Five hours a week, winter quarter,* Professor .....

163. EVALUATION OF CLASSROOM INSTRUCTION. (5).

The general and specific objectives of instruction are agreed upon in the early meetings of this course. Criteria are then developed for evaluating the materials, techniques, activities, and outcomes of instruction. The latter part of the course consists in applying the criteria to actual classroom lessons in an attempt to develop skill in observing, evaluating, and improving instruction. *Five hours a week, alternate spring and summer quarters.* Professor McKee.

†164. TESTS AND MEASUREMENTS IN ELEMENTARY EDUCATION. (5). Prerequisite, Education 71 or Psychology 21-22-23.

Methods of measuring and improving the results of instruction in the elementary school will be given detailed consideration in this course. Students will be made acquainted with the most important tests and scales and will be given some experience in interpreting the results both statistically and practically. *Five hours a week, fall quarter.* Professor Trabue.

171. THE PSYCHOLOGY OF ELEMENTARY EDUCATION. (5). *Five hours a week, spring quarter.* Professor Jordan.

†173. MENTAL MEASUREMENTS. (5). Prerequisite, Education 71 or Psychology 21-22-23.

A study of mental tests, both individual and group. The origin of tests will be first considered, followed by a comparative study of the various types of group and individual tests. Ample opportunity will be offered for the actual administration of tests and the interpretation of results. *Five hours a week, spring quarter.* Professor Jordan.

181. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL ENGLISH. (5). Prerequisites to be determined by the instructor.

This course is designed to give practical preparation for the teaching of English in high schools. It includes consideration of the aims, courses of study, and methods found most effective in the teaching of grammar, composition (oral and written), and the different types of literature to pupils of high school age. Applicants should be thoroughly grounded in the fundamental principles of English grammar, should write and speak well, and should have more than average ability to appreciate literature. *Five hours a week, every quarter.* Professor Farrar.

183. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL FRENCH. (5). Prerequisites to be determined by the instructor.

In this course the student studies the development of modern language teaching. Particular stress is laid on present-day tendencies, more especially

† Not given, 1935-1936.

in connection with pronunciation, phonetics, reading, "realia," activities, texts, etc. Weekly reports in readings. Term paper. *Five hours a week, every quarter.* Professor Giduz.

185. MATERIALS AND METHODS OF TEACHING THE SOCIAL STUDIES. (5). Prerequisites to be determined by the instructor.

This course is required of all students who are preparing to teach high school history and other social studies. The aims, functions, and objectives of the social studies will be carefully analyzed and the history of their place in the American secondary school examined. Such problems as planning and organizing the course, textbooks, and library equipment, maps, pictures, and other visual aids will be considered. Following these will be a discussion of the various methods problems such as the recitation, teaching pupils how to study, the lecture, textbook, topical problem and source methods, written work, and testing results. Textbooks, lectures, discussions, special investigations, and reports. *Five hours a week, every quarter* Professor King.

187. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL LATIN. (5). Prerequisites to be determined by the instructor.

This course is designed primarily for students who plan to teach high school Latin, whether as a major or minor subject. The history of the teaching of Latin will be discussed along with modern tendencies of instruction in this field. A special study will be made of high school Latin texts, and reports and discussions will emphasize the various methods used in teaching them. Helpful bibliographies will be compiled and examined. *Five hours a week, winter or spring quarter.* Professor Gwynn.

189. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL MATHEMATICS. (5). Prerequisites to be determined by the instructor.

A course designed to give those preparing to teach mathematics in high school a comprehensive view of that field. It is composed of six units as follows: history of mathematics, objectives of mathematics teaching, materials, methods, the psychology of mathematics teaching, and measuring in the field of mathematics. Reading and reports on these units will be required. *Five hours a week, every quarter.* Professor Munch.

191. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL SCIENCE. (5). Prerequisites to be determined by the instructor.

Knowledge of science content is assumed. This course considers the objectives and curriculum position of secondary school science, the proper teaching viewpoint, instruction techniques, selection and use of equipment, as background, the development of secondary school science in response to changing economic, social, and educational conditions is briefly studied. Assigned readings introduce the important literature. *Five hours a week, every quarter.* Professor Preston.

194. MEASUREMENTS IN SECONDARY EDUCATION. (5). Prerequisite, Education 71 or Psychology 21-22-23.

Standard tests for measuring the results of secondary school instruction will be examined and discussed. Special attention will be given to the results and needs in North Carolina high schools. Students will be expected to become fairly familiar with the tests and scales and to develop some skill in interpreting results. *Five hours a week, spring quarter.* Professor Jordan.

‡197. SOCIAL POLICY AND EDUCATION. (5).

Fundamental problems in the social and ethical theory of education. Lectures, prescribed readings, essays, and reports. This course deals with problems of social progress from the standpoint of education, attempts to define a social policy for education, and discusses the vital educational issues involved in that policy. *Five hours a week, winter quarter.* Professor .....

## *DEPARTMENT OF ENGLISH

Professors: G. R. Coffman, F. H. Koch, J. M. Booker, G. M. McKie, G. C. Taylor, **W. F. Thrall, G. L. Paine, A. P. Hudson.

Exchange Professor: Y. Z. Chang.

Associate Professors: A. C. Howell, ***W. D. MacMillan III, †E. E. Ericson, C. P. Russell, Raymond Adams, R. P. Bond.

Assistant Professors: ***R. P. McClamroch, W. A. Olsen, Samuel Selden, R. B. Sharpe, H. K. Russell, J. O. Bailey.

Instructors: W. L. Wilson, H. E. Davis, G. F. Horner, H. E. Spivey, A. L. Williams, W. S. Wells, R. W. Nelson.

### Courses for Undergraduates

Note: English 1-2-3 and English 21-22-23 are prerequisite to all advanced courses in the department. Juniors will not be admitted to courses for advanced undergraduates except by special permission.

1-2-3. FRESHMAN ENGLISH. (9). Required of all Freshmen except those in the School of Engineering.

Professors Hudson (Chairman), McClamroch, Adams, Harry Russell, Bailey; Messrs. Nelson, Horner, Wilson, Wells, Spivey, Williams, Cox, Mahler, Congleton, Henry, McNeir, Cardwell, Grubb, Hartsell, Langston, Sams, Shackford, Svendsen, Ward, Robertson.

21-22-23. ENGLISH LITERATURE. (9). Prerequisite, English 1-2-3. Sophomore requirement.

Professors Adams (Chairman), Coffman, Booker, McKie, Taylor, Thrall, Paine, Hudson, Chang, Howell, MacMillan, Ericson, Bond, McClamroch, Olsen, Sharpe, Harry Russell, Bailey; Messrs. Wells, Williams, Nelson.

*The following two courses are at once courses in literature and courses in speech. As literature courses, they are based on the pedagogical principle of "impression through expression." As speech courses, they deal with voice training and aim at the cultivation of clear and effective expression. In each course original analyses of works read and the oral reading of original papers are required.*

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‡ Not given, 1935-1936.

* Students interested in having a general major in English will please see the head of the Department or the departmental adviser concerning specific requirements.

For a major in dramatics the following are required: Three courses (5 hours each) from Playwriting, Acting and Directing, Technical Practice; three courses in dramatic literature—English 50, English 161 (or History of the Theatre), English 162 (or 149); one course in "speech". See Special Bulletin on Dramatic Arts.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

** Not in residence, winter, 1936.

*** Absent on leave, 1935-1936.

† Absent on leave, fall, 1935.

41. THE ORAL INTERPRETATION OF DRAMATIC LITERATURE. (5).

Elizabethan, eighteenth-century, and modern plays are used to give variety in dramatic expression. *Five hours a week, fall quarter.* Professor McKie.

42. THE ORAL INTERPRETATION OF NON-DRAMATIC LITERATURE. (5).

A wide variety of poetry from Milton to Masefield is the main material in this course, though work is required in the reading of suitable prose. *Five hours a week, spring quarter.* Professor McKie.

44. PUBLIC SPEAKING: INTRODUCTORY COURSE. (5).

Emphasis on organization of material, outlines, delivery, problems of attention and persuasion. Assigned reading in contemporary public problems as a basis for speaking. *Five hours a week, every quarter.* Professor Olsen.

45. ARGUMENTATION AND PUBLIC DISCUSSION. (5).

Includes analysis of questions, evidence, types of argument, fallacies, problems of persuasion, and practice in parliamentary procedure. *Five hours a week, winter quarter.* Professor Olsen.

50. SHAKESPEARE. (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter* (Professor Koch), *spring quarter* (Professor Taylor).

*Registration in English 51, 52, 53, 54 is limited. Before registering for these courses, students must secure the permission of the instructors.*

51. ADVANCED COMPOSITION: PRACTICAL EXPOSITION. (5).

A course primarily for students in the School of Commerce and Pharmacy, and in science, designed to give practice in writing the forms commonly used in the business world: letters, reports, professional papers, and articles for the press. *Five hours a week, spring quarter.* Professor Howell.

52. ADVANCED COMPOSITION: THE TECHNIQUE OF EXPOSITION. (5).

A course in expository writing for students desiring practice in organization of material. *Five hours a week, fall quarter* (Professor Howell)), *spring quarter* (Professor Phillips Russell).

53. CREATIVE WRITING. (5).

Study of and practice in various forms of original and imaginative writing, including verse, the short story, and the novel. Class criticism and discussion. *Five hours a week, fall quarter.* Professor Phillips Russell.

54. CREATIVE WRITING. (5).

To some extent parallel to the above course, but paying special attention to modern, experimental, and regional writing. *Five hours a week, winter quarter.* Professor Phillips Russell.

*The following six courses, English 61, 62, 63, 64, 65, 66, are introductory courses in the theory and practice of the theatre designed for students participating in the work of The Carolina Playmakers. All students registered for the three courses, English 64, 65, 66, will be required to fill positions on the technical staff of the productions of The Carolina Playmakers.*

61. ACTING. (5).

Training in the technique of acting. *Five hours class work a week, fall quarter. Fee for materials, 81.00.* Professor Selden.

*Registration in English 62, 63 is limited. Before registering for these courses, students must secure the permission of the instructor.*

62. REHEARSAL AND PERFORMANCE. (5).

The theory and practice of ensemble acting from the point of view of both the actor and the director. *Five hours classwork a week, winter quarter. Fee for materials, $1.00.* Professor Selden.

63. PLAY DIRECTION. (5). Prerequisite, English 61 or 62.

The theory and practice of play directing. *Two hours lecture and six hours practical work a week, spring quarter. Fee for materials, $2.00.* Professor Selden.

64. SCENERY CONSTRUCTION AND PAINTING. (3).

Elementary theory and practice in the construction and painting of scenery for the stage. *One hour lecture and four hours laboratory a week, fall quarter. (See note preceding course 61.) Fee for materials $1.00.* Mr. Davis

65. STAGE LIGHTING. (3).

Elementary theory and practice in stage lighting, including the choice of equipment and its control in the theatre. *One hour lecture and four hours laboratory work a week, winter quarter. (See note preceding course 61). Fee for materials, $1.00.* Mr. Davis.

66. STAGE DESIGN. (3).

The history of and elementary theory and practice in the designing of scenery for the stage, through the preliminary sketch, the model, and the working drawings. A considerable amount of simple architectural drafting will be required. *One hour lecture and four hours laboratory work a week, spring quarter. (See note preceding course 61). Fee for materials, $1.00.* Professor Selden; Mr. Davis.

70. CHAUCER. (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman (1936), Professor Bond (1937).

75. BROWNING. (5).

*Five hours a week, spring quarter.* (1938 and alternate years.) Professor Booker.

79. ENGLISH LITERATURE, 1890-1920. (5).

The aim of this course is to follow the main current of thought in the more significant literature of the three decades closing with the World War. *Five hours a week, fall quarter.* Professor Booker.

81. AMERICAN LITERATURE. (5).

A survey of American literature from 1830 to 1855, with special attention to Poe, Emerson, Thoreau, Lowell, Hawthorne, and Melville. *Five hours a week, fall quarter.* Professor Adams.

82. AMERICAN LITERATURE. (5).

A survey of American literature from Whitman to the present with special emphasis upon the literature of the South. The course includes a study of the local color movement, traces the rise of realism, and surveys the social novel after 1880. *Five hours a week, winter quarter.* Professor Adams.

87. LITERARY ASPECTS OF THE BIBLE. (3).

A study of the literary aspects of the Bible in English translations, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Three hours a week, spring quarter.* Professor Howell.

88. VICTORIAN LITERATURE I, 1832-1860. (5).

A survey with special attention to Carlyle, Tennyson, and Browning. *Five hours a week, winter quarter.* Professor Booker.

89. VICTORIAN LITERATURE II, 1860-1890. (5).

A survey with special attention to Ruskin, Rossetti, Morris, and Swinburne. (1937 and alternate years.) *Five hours a week spring quarter.* Professor Booker.

91. THE ENGLISH NOVEL. (5).

A study of the English novel from Defoe to Hardy. *Five hours a week, spring quarter.* Professor Harry Russell (1936); Professor MacMillan (1937).

93. ENGLISH DRAMA. (5).

A study of English drama from the beginning to 1900. *Five hours a week, winter quarter.* Professor Sharpe (1936); Professor Coffman (1937).

95. MODERN ENGLISH LANGUAGE. (5).

A study of English of the present day, standard as well as dialectal. The historical backgound and development of English. Comparative studies in British and American English. *Five hours a week, spring quarter.* (1936 and alternate years). Professor Ericson.

98. CONTEMPORARY POETRY. (5).

A study of selections from American and English poets whose work has achieved an individual yet essentially homogeneous expression chiefly since 1918. *Five hours a week, spring quarter.* Professor McClamroch.

99. HISTORY OF ENGLISH LITERATURE. (5).

This course is designed to strengthen the student's factual framework of essential literary history and to enable him to supplement the gaps in his first hand knowledge of important and significant literary productions. It is required of seniors majoring in English whose course average in the department is lower than B, but open to all who desire to prepare for the comprehensive examination. *Five hours a week, fall quarter.* Professor Sharpe.

*Permission of the instructor is required for registration in the following course.*

100. DIRECTED READING. (5).

Open to advanced students in any department who desire to read in the field of their literary interests. *Five hours a week, spring quarter.* Professor Coffman.

DEBATING 1. (3).

A course in the discussion and analysis of current public questions. Occasional lectures by various members of the faculty *Weekly meetings throughout the year.* Professor Olsen (Chairman).

## Courses for Graduates and Advanced Undergraduates

101. OLD ENGLISH GRAMMAR AND READINGS. (5).

Selections for translations from Early and Late West Saxon prose and from Old English poetry. Drill in the principles of English philology. Old English in relation to the other Germanic languages. *Five hours a week, fall quarter.* Professor Ericson.

105. MEDIEVAL ROMANCE IN ENGLISH. (5).

A survey of medieval romance and romance materials in English literature, with particular attention to the Arthurian tradition. *Five hours a week, winter quarter.* Professor Thrall.

111. ENGLISH LITERATURE OF THE RENAISSANCE. (5).

A survey of the literature of the Elizabethan period, exclusive of the drama. *Five hours a week, fall quarter.* Professor Thrall.

112. SPENSER. (5).

The works of Spenser are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, spring quarter.* Professor Thrall.

113. ENGLISH DRAMA, 1500-1600. (5).

English Drama in the Sixteenth Century with preliminary consideration of the religious drama in Western Europe and in Medieval England. *Five hours a week, fall quarter.* Professors Coffman, Sharpe.

114. ENGLISH DRAMA, 1600-1642. (5).

*Five hours a week, winter quarter.* Professor Sharpe.

121. ENGLISH LITERATURE, 1616-1700. (5).

The non-dramatic literature of the period. *Five hours a week, winter quarter.* (1938 and alternate years.) Professor Howell.

125. MILTON, (5).

The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

131. ENGLISH LITERATURE, 1700-1780. (5).

The non-dramatic literature of the period. *Five hours a week, fall quarter.* Professors MacMillan, Bond.

133. RESTORATION AND EIGHTEENTH-CENTURY DRAMA. (5).

A study of the drama from 1660 to 1800. *Five hours a week, spring quarter.* Professor Sharpe (1936); Professor MacMillan (1937).

141. ENGLISH LITERATURE, 1780-1830. (5).

A survey of English literature of the romantic period with especial attention to the greater poets. *Five hours a week, winter quarter.* Professor Hudson.

149. NINETEENTH-CENTURY DRAMA. (5).

A study of representative English plays in the nineteenth century. (1937 and alternate years.) *Five hours a week, spring quarter.* Professor Koch.

151. EARLY AMERICAN LITERATURE. (5).

A survey of the literature of the colonial, revolutionary, and early national periods, including Bryant, Irving, and Cooper. *Five hours a week, fall quarter.* Professor Paine.

*The following three courses in Play Writing, English 155, 156, 157, should be taken consecutively. If it is not practicable to do this, however, the student may, with the consent of the instructor, take any one of the three courses offered. Under exceptional circumstances a student may repeat one or more of the courses for credit. Special permission is necessary for this privilege.*

155. PLAY WRITING. (5).

A practical course in playwriting and experimental production. In all three of the playwriting courses emphasis is placed on the native tradition and present-day life of the region with which the student is most familiar. The student is expected to direct experimental productions of plays written in the course. The best of these are given public production by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, fall quarter. Fee for experimental production, $2.00.* Professors Koch, Selden.

156. PLAY WRITING. (5).

The principles of dramatic construction and practice in the writing and production of one-act plays. Experimental and public productions. *Four hours lecture and two hours practical work a week, winter quarter. Fee for experimental production, $2.00.* Professors Koch, Selden.

157. PLAY WRITING. (5).

Practice in writing one-act and full-length plays with experimental and public productions by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, spring quarter. Fee for experimental productions, $2.00.* Professors Koch, Selden.

161. COMPARATIVE DRAMA. (5).

A general survey of the drama and the theatre from Æschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. *Five hours a week, winter quarter.* Professor Koch.

162. MODERN DRAMA. (5).

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. *Five hours a week, spring quarter.* (1938 and alternate years.) Professor Koch.

163. LITERARY CRITICISM. (5).

The principles which have animated classical, romantic, and realistic literature. *Five hours a week, winter quarter.* Professor Bond.

167. THE ENGLISH BALLAD. (5).

A study of the English and Scottish popular ballads, with a survey of ballad survivals in America, particularly in North Carolina. Students in the course who may have access to ballads in oral circulation will be encouraged to collect them. *Five hours a week, spring quarter.* Professor Hudson.

## *DEPARTMENT OF GENERAL AND COMPARATIVE LITERATURE

Professors: **Howe (Chairman), Koch, Bernard, ***Holmes, Thrall, Taylor, Coffman, Zucker, Adams, †Huse, Lyons.
Associate Professors: Metzenthin, Howell, Boggs, Stoudemire, Bond, Wiley.
Instructor: Friederich.

### Courses for Undergraduates

61. GREEK LITERATURE. (5).

A study of the masterpieces of Greek literature in English translation, with special reference to the contribution of Greece to modern thought. *Five hours a week, fall quarter.* Professor Bernard.

62. LATIN LITERATURE. (5).

A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Howe.

65. ORIENTAL LITERATURE. (5).

The epics, dramas, etc., of the Hindus, Chinese, and other peoples are studied for their revelation of the Oriental outlook on life, and for their contribution to Occidental literature and thought. (1938 and alternate years). *Five hours a week, spring quarter.* Professor Holmes.

67. CONFUCIANISM AND CHINESE LITERATURE. (3).

A survey of Chinese civilization. Lectures on the development of the Confucian tradition and its influence on literature will be accompanied by readings in literature and philosophy. The comparative method of presentation will be employed. *Three hours a week, spring quarter* (1936). Professor Chang.

68 (75). SHAKESPEARE. (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter* (Professor Koch), *spring quarter* (Professor Taylor).

70. CHAUCER. (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman.

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* The purposes of Courses in this department are: to offer students who cannot study certain of the classical and modern languages an opportunity to become familiar with the most important works translated from them; to furnish a view of the culture and values of the past and of various nations; to present a survey of the most important figures in world literature, including English; and to provide, in the case of certain courses, a more strictly comparative study of literary forms and movements.

An undergraduate major in the department consists normally of six to eight of the following courses (at least two of which must be from the classics): Homer; Virgil; Ovid; the Greek Drama; Cervantes; Shakespeare; Milton; French Classicism; Lessing and Schiller; Goethe; and Dante. In case of special needs other courses in the department may be substituted.

** Absent on leave, 1935-1936.

*** Absent on leave, fall and winter, 1935-1936.

† Acting Chairman, 1935-1936.

87. LITERARY ASPECTS OF THE BIBLE. (3).

A study of the literary aspects of the Bible in English translations, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Three hours a week, spring quarter.* Professor Howell.

## Courses for Graduates and Advanced Undergraduates

103 (113). HOMER, THE ILIAD AND ODYSSEY. (5).

The epic as a literary form; origins, Mycenaean civilization, literary characteristics, comparison of the chief English translations. *Five hours a week, winter quarter.* Professor Bernard.

107 (155). GREEK DRAMATIC LITERATURE. (5).

A course designed to embrace the origin, development, technique, and content of Greek drama, with emphasis on tragedy. An interpretation of Greek life and thought as contributing to world progress. *Five hours a week, spring quarter.* Professor Bernard.

111. VERGIL, THE ÆNEID. (5).

The history of the Latin epic; a detailed study of the Aeneid. *Five hours a week, spring quarter.* Professor Howe.

112. OVID. (5).

The reading in English of the complete works of Ovid. Special critical studies in the Metamorphoses. The influence of Ovid on later writers. *Five hours a week, fall quarter.* Professor Howe.

117 (157). CERVANTES. (5).

Consideration of the Romances of Chivalry in Spain; study of Cervantes' *Don Quixote* and the *Exemplary Novels* in English translation. *Five hours a week, spring quarter.* Professor Stoudemire.

121, 122. LESSING AND SCHILLER. (5).

Their lives and works; their philosophical, theological, social, and literary views; their indebtedness to earlier literature and their influence on later thinkers and writers. Course 121 (Lessing), *three hours a week, winter quarter;* Course 122 (Schiller), *three hours a week, spring quarter.* (1937 and alternate years). Professor Metzenthin.

125. MILTON. (5).

The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

135 (159). FRENCH CLASSICISM. (5).

A general survey of the origins of classicism in France. Assigned readings in the Greek and Latin writers with emphasis on the modification of their art which explains the masterpieces of the French 17th century. A large part of the course will be given over to the plays of Corneille, Molière, Racine, and their contemporaries. The decline of classicism in France, and the evolution toward an unrestricted type of literature. *Five hours a week, spring quarter.* Professor Wiley.

155 (123). GOETHE. (5).

A study of the man, thinker, and poet in connection with the German and general European movements of thought and literature in his time. Lectures and reports. (1936 and alternate years). *Five hours a week, spring quarter.* Professor Zucker.

156. DANTE. (5).

A study of translations of the *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, winter quarter.* Professor Huse.

161. COMPARATIVE DRAMA. (5).

A general survey of the drama and the theatre from Aeschylus to Ibsen. Special attention is given to the function of the drama in representative plays of the leading European dramatists. *Five hours a week, winter quarter.* Professor Koch.

162. MODERN DRAMA. (5).

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1938 and alternate years). *Five hours a week, spring quarter.* Professor Koch.

163. LITERARY CRITICISM. (5).

The principles which have animated classical, romantic, and realistic literature. *Five hours a week, spring quarter.* Professor Bond.

165. IBSEN. (5).

A study of Ibsen's dramas in English translation. Special attention is given to the inter-relation of the author's life and his plays; the romantic, realistic, and symbolic phases of his work; "the Ibsen technique"; Ibsen's message and influence. *Five hours a week, winter quarter.* Professor Zucker.

170 (151). THE MIDDLE AGES. (5).

A survey of Medieval France, England, Germany, Spain, Italy, and Byzantium, from the point of view of civilization and especially of art and literature. (1937 and alternate years). *Five hours a week, fall quarter.* Professor Holmes.

173 (105). MEDIEVAL ROMANCE. (5).

A survey of Medieval romance and romance materials in English literature, with particular attention to the Arthurian tradition. (Same as English 105). *Five hours a week, spring quarter.* Professor Thrall.

175. (152). THE RENAISSANCE. (5).

An account of the establishment of modern European culture. Lectures on the history, science, fine arts, literary scholarship, and literature of the Renaissance in Italy, France, Germany, the Netherlands, and England. (1936 and alternate years). *Five hours a week, fall quarter.* Professors Holmes (Chairma), Adams, Lyons; Messrs. Linker, Friederich.

177. LITERARY INFLUENCES IN FRANCE, GERMANY, AND ENGLAND IN THE EIGHTEENTH CENTURY. (5).

The *Querelle des Anciens et des Modernes;* French classicism (Voltaire) in its defence against growing English Pre-romanticism and German Strum

und Drang. The influence of Shakespeare and Milton on the continent of Rousseau, Goethe, and Schiller in France and England. *Five hours a week, winter quarter.* Mr. Friederich.

185. INTRODUCTION TO FOLKLORE. (5).

Origin, evolution, and bibliography of types. Literary significance, as seen in the development of prose fiction. Collections, such as the *Panchatantra, Seven Sages, Arabian Nights,* etc., and the continuation of these tales through medieval and modern literature. *Five hours a week, winter quarter.* Professor Boggs.

## *DEPARTMENT OF GEOLOGY AND GEOGRAPHY

Professor: W. F. PROUTY.
Associate Professor: G. R. MACCARTHY.
Assistant Professors: S. T. EMORY, J. W. HUDDLE.
Instructor: H. W. STRALEY.

### Geology: Courses for Undergraduates

11-12-13. INTRODUCTION TO GEOLOGY AND GEOGRAPHY. (12). Professors Prouty, MacCarthy, Huddle, Emory; Assistants.

41-42. INTRODUCTION TO GEOLOGY. (12).

A fuller course in general geology. Sophomore, Junior, and Senior elective. Geology 41 is offered in the fall and spring quarters, in the summer session, and on the summer transcontinental tour. Geology 42 is offered in the winter quarter and in the summer session. *Four lecture and four laboratory hours a week. Laboratory fee, $3.00 a quarter.* Professors: Prouty, MacCarthy, Huddle; Assistants.

43, 44. MINERALOGY. (5 each). Prerequisite, Introduction to Geology, Chemistry 1-2-3 or 4-5.

Crystallography, physical and chemical properties of minerals, blowpipe analysis; lectures, laboratory work, and field work. *Two lecture and six laboratory hours a week, fall and winter quarters. Laboratory fee, $5.00 a quarter.* Professor MacCarthy.

45. METEOROLOGY. (5).

A study of the atmosphere and the factors controlling the weather; the making and interpetation of weather maps; weather forecasting. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $2.50.* Professor MacCarthy.

47. PALEONTOLOGY. (5). Prerequisite, Introductory Geology.

Introduction to invertebrate paleontology. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professor Huddle.

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* For A.B. with Major in Geology there are required beyond General Geology: Geology 43, 47, 121, and two from the following five: 105, 111, 122, 133, and 181. Two introductory courses each in chemistry and physics are required, but may be taken in the General College. Four additional courses are to be chosen from allied departments, and six courses outside the Division of Natural Sciences.

For S.B. in Geology there are required: Freshman year—Chem. 1-2-3, Soc. Sci. 1-2-3, Engl. 1-2-3, Math. 1-2-3. For. Lang. 11-12-13; Sophomore year—Engl. 21-22-23. Geol. 11-12-13, Math. 41-42-43, Chem. 31, Geol. 43-44. Further requirements are 9 specified courses in Geology, 2 courses in Physics, and 9 general elective courses.

48-49. SUMMER FIELD COURSE IN GEOLOGY. (10). Prerequisite, Introductory Geology.

A six weeks' course to be given in North Carolina and bordering states. This course will coincide with the scheduled six weeks' summer school course. It may also be taken on the transcontinental tour. *Equivalent of five hours a week for two quarters.* Professors Prouty, MacCarthy, Huddle.

## Geography: Courses for Undergraduates

14. PHYSICAL GEOGRAPHY. (5).

Principles of physical geography, with special application to the North American Continent. Lectures, assigned readings, laboratory work. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $2.50.* Professors Prouty, MacCarthy, Huddle, Emory.

This course may also be taken as a field course during the summer.

15. ELEMENTS OF GEOGRAPHY. (5).

A rapid survey of the world on the basis of climatic regions. The human activities of each region are studied as adjustments to the geographic factors of that region. *Five hours a week, fall or spring quarter. Laboratory fee, $1.50.* Professor Emory.

51, 52. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. (5 each).

The course deals with man's interaction with his varying environments in the development of industries, and with the geographic conditions of different countries as giving rise to commerce. *Five hours a week, fall and winter quarters. Laboratory fee, $2.50 a quarter.* Professor Emory.

53. POLITICAL GEOGRAPHY. (5).

The course deals with geographic factors affecting international relations. *Five hours a week, spring quarter. Laboratory fee, $2.50.* Professor Emory.

57. GEOGRAPHY OF NORTH AMERICA. (5).

This course deals with the physical features, soils, minerals, climatic resources, and transportation facilities of North America. *Five hours a week, reading and reports, winter quarter.* Professor Emory.

## Geology: Courses for Graduates and Advanced Undergraduates

105. ELEMENTS OF GEOPHYSICS. (5). Prerequisite, Introduction to Geology and Freshman Mathematics.

The fundamental principles of geophysics, the application of these principles to practical problems. This course may be continued for not more than two additional quarters under the numbers 106 and 107. *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $5.00 a quarter.* Professor MacCarthy.

111, 112, 113. ECONOMIC GEOLOGY. (5 each). Prerequisite, Introduction to Geology, Geology 43, 44, Chemistry 1-2-3 or 4-5.

The first course will deal chiefly with the principles of ore formation and their economic development. The two following courses will deal with the better known mineral deposits, both metallic and non-metallic. (1935-36 and alternate years). *Three lecture and four laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50 a quarter.* Professor Prouty; Assistant.

121, 122. FIELD AND STRUCTURAL GEOLOGY. (5 each). Prerequisite, Introduction to Geology.

The first quarter deals with geological note taking, surveying, map making, and field practice; the second quarter deals with structural geology and map interpretation. *Three lecture and four laboratory hours a week, fall and winter quarters.* (1936-1937 and alternate years.) *Laboratory fee, $3.50 a quarter.* Professor Prouty; Assistant.

123. OIL GEOLOGY. (5). Prerequisite, Geology 121, 122.

A study of the origin, distribution, and accumulation of petroleum, with special relation to the oil fields of North America; methods of prospecting oil, recovery of oil, the valuation of oil properties. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professors Prouty, Huddle.

131. ADVANCED CRYSTALLOGRAPHY. (5). Prerequisite, Chemistry 1-2-3 or 4-5, Geology 43, 44.

This course includes a detailed consideration of the nature of crystals, crystalline substances, and crystal drawing. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professor MacCarthy.

133. PETROLOGY. (5). Prerequisite, Introduction to Geology, Geology 43, 44, Chemistry 1-2-3 or 4-5.

A study of the origin, classification, and distribution of rocks. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $3.50.* Professor Prouty; Assistant.

134. PETROGRAPHY. (5). Prerequisite, Introduction to Geology, Geology 43, 44, Chemistry 1-2-3 or 4-5.

The polarizing microscope is used to study minerals and rocks. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.50.* Professor Prouty.

148-149. ADVANCED FIELD GEOLOGY. (10).

This course is similar to 48-49 but is to be given in alternate years and in a different type of geological area. Professors Prouty, MacCarthy, Huddle.

171-172-173. ADVANCED PALEONTOLOGY. (15).

A study of index fossils, their classification and use. These courses may be continued under numbers 174-175-176 as Micro-paleontology. *Three lecture and four laboratory hours a week, fall, winter, and spring quarters.* (1935-1936 and alternate years). *Laboratory fee, $3.50 a quarter.* Professor Huddle.

181-182-183. ADVANCED HISTORICAL GEOLOGY. (15). Prerequisite, Introductory Geology.

*Five hours a week, fall, winter, and spring quarters.* (1936-1937 and alternate years.) Professor Huddle.

191, 192, 193. APPLIED GEOPHYSICS. (5). Prerequisite, Mathematics through Calculus.

A survey of geophysical methods used for the detection of ore deposits, oil, etc.; a description of geophysical instruments and their use; actual geophysical surveys of selected areas about Chapel Hill. *Three lecture and four laboratory hours a week, fall, winter and spring quarters.* Professor MacCarthy; Mr. Straley; Assistant.

### Geology or Geography: Courses for Graduates and Advanced Undergraduates

141, 142, 143. ADVANCED FIELD WORK AND SPECIAL RESEARCH IN GEOLOGY AND GEOGRAPHY. (5 each).

Problems and work adapted to the special needs of the student. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Five hours a week, fall, winter and spring quarters.* Professors Prouty, MacCarthy, Huddle, Emory; Assistants.

## *DEPARTMENT OF GERMANIC LANGUAGES

Professors: A. E. ZUCKER, K. J. BROWN.
Associate Professor: E. C. METZENTHIN.
Instructors: F. E. COENEN, W. P. FRIEDERICH.

### Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE GERMAN. (9).
Messrs. Coenen, Backenstoss, Cook, Lloyd.

NOTE: Attention is called to German 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE GERMAN. (9).
Professor Metzenthin; Mr. Coenen.

14-15-16. SPECIAL COURSE IN ELEMENTARY GERMAN. (9).
Professor Metzenthin.

21-22-23. ADVANCED GERMAN. (9). Prerequisite, German 1-2-3 or 11-12-13 or the equivalent.

Professors Zucker, Brown; Mr. Friederich.

51. PRACTICE IN WRITING AND SPEAKING GERMAN. (5). Prerequisite, German 23. *Five hours a week, fall quarter.* Mr. Coenen.

61. GERMAN CIVILIZATION. (5). Prerequisite, German 51.

Lectures on German geography, history, institutions, art, music, and customs. All lectures, discussions, and reports are in German. *Five hours a week, winter quarter.* Professor Metzenthin.

71. ADVANCED GRAMMAR AND SYNTAX. (5). Prerequisite, German 23.

A course open to juniors and seniors who wish to improve their knowledge of German grammar and idiom. Intensive review of grammar in connection with written composition. *Five hours a week, spring quarter.* Mr. Coenen.

### Courses for Graduates and Advanced Undergraduates

101-102. GOETHE. (10). Prerequisite, German 23.

Study of his life. Reading and interpretation of representative works, including Faust I. Lectures and reports. *Five hours a week, fall and winter quarters.* Professor Brown.

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* (1) Students are requested to consult with the departmental adviser in regard to the requirements of a major in German.

111. GERMAN DRAMA IN THE NINETEENTH CENTURY. (5). Prerequisite, German 23.

Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann. Reading, lectures, reports. *Five hours a week.* (Not given in 1936-1937). Professor Brown.

112. LATE MEDIEVAL RENAISSANCE, AND BAROQUE LITERATURE IN GERMAN. (5). Prerequisite, German 23.

German literature and its cultural background from 1400 to 1700. Extensive outside reading and reports. *Five hours a week, spring quarter.* (1936 and alternate years). Mr. Friederich.

121, 122. LESSING AND SCHILLER IN ENGLISH TRANSLATION. (For description see General and Comparative Literature 121, 122.)

131. LESSING AND HIS TIME. (5). Prerequisite, German 23.

New trends in German literature from 1700 to 1780. French and English influences. Wieland, Klopstock, Herder. Lectures, translation, and reports. *Five hours a week, fall quarter.* (1936 and alternate years). Mr. Friederich.

132. SCHILLER. (5). Prerequisite, German 23.

Study of Schiller's life and works with emphasis on his historical dramas. Lectures, translation, and reports. *Five hours a week, winter quarter, alternating with German 142.* Professor Zucker.

141. ROMANTICISM AND YOUNG GERMANY. (5). Prerequisite, German 23.

German literature from 1800 to 1850. Lectures, translation, and reports. *Five hours a week, spring quarter.* Mr. Friederich.

142. GERMAN LITERATURE SINCE 1850. (5). Prerequisite, German 23.

A study of later 19th century literature, with emphasis on the naturalistic and neo-romantic movements. Lectures, translation, and reports. *Five hours a week, winter quarter, alternating with German 132.* (Not given 1936-1937). Professor Zucker.

151. PROSEMINAR. (2½). Prerequisite, German 23.

Discussion of literary genres. Analysis of the styles of different authors. *Two hours a week, fall quarter; if demanded, continued in winter.* Mr. Friederich.

155. GOETHE IN ENGLISH TRANSLATION. (For description see General and Comparative Literature 155. This course was numbered 123 in the catalog for 1934-1935).

161. HISTORY OF THE GERMAN LANGUAGE. (5). Prerequisite, a fair knowledge of written and spoken German.

Development of grammatical forms, pronunciation, writing and printing of the German language, as well as of semantic changes under external and internal influences from Gothic through Old High German, Middle High German down to New High German. Emphasis on bibliography and the reading of original documents from the various periods. Comparison with similar developments in English. *Five hours a week, fall quarter.* Professor Metzenthin.

## *DEPARTMENT OF HISTORY

Professors: A. R. Newsome, H. M. Wagstaff, W. W. Pierson, M. B. Garrett, W. E. Caldwell, **L. C. MacKinney, H. T. Lefler, ***F. M. Green.
Visiting Professor: H. K. Beale.
Assistant Professors: J. C. Russell, Cecil Johnson, C. H. Pegg.
Instructors: R. D. Meade, J. C. Sitterson, †Dan Lacy.

### Courses for Undergraduates

SOCIAL SCIENCE 1-2-3. (9). Freshman requirement.

Professors Johnson, Pegg, Russell; Messrs. Lacy, Meade, Sitterson; Professors Robson (Political Science), Buchanan (Economics), Mr. Douty (Economics).

Note: Social Science 1-2-3 is prerequisite to all other courses in this department.

12. AMERICAN BIOGRAPHY. (5). Freshman or sophomore elective. *Five hours a week, spring quarter.* Professor .....

21-22-23. AMERICAN HISTORY: GENERAL COURSE. (9). Sophomore elective.

Professors Newsome, Green.

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* A student choosing history as his department of major interest must elect either American history or European history as his field of specialization and complete a minimum of six approved courses of advanced level in the field of his choice. The requirement for the major in American history shall be eight approved courses of advanced level, if the student has not completed History 21-22-23 or History 71-72 with a minimum grade of B; and a like number (eight) for a major in European history if the student has not completed History 41-42 or History 44-45-46 with a minimum grade of B. The student must take at least four of his six or five of his eight courses from his field of specialization; he may elect the remaining courses of his major from the other field. All history courses numbered above 50, except History 71-72, may be credited toward the major.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

Note: READING FOR HONORS IN HISTORY:

Students whose major is History are required to select one of the following fields of specialization: Ancient and Medieval History, Modern European and English History; American and Hispanic-American History.

Students may with the approval of the Department elect to read for honors. This election must be made before the end of the first quarter of the Junior year. A committee composed of the Professors giving courses in the student's field of specialization will be appointed for each student so electing. The committee will advise with the student on his program of courses and will assign to him a specific period or phase of the field for intensive reading. They will require reports on such readings at regular intervals.

The student will be expected to submit before the end of the senior year an essay, prepared under the guidance of the committee and dealing with some particular topic in the field of the reading. While not necessarily a contribution to knowledge, the paper should show ability in the technique of historical research.

Near the close of the Senior year, the student will be required to stand an oral examination in which he will be expected to show a reasonable mastery of the field of his reading.

Students who pass shall receive a credit of two full courses toward graduation and at commencement shall be given a certificate "with honors" or "with highest honors".

The credit allowed for reading for honors may be applied to the fulfillment of the requirements for the major.

** Absent on leave, winter and spring quarters, 1935-1936.

*** Absent on leave, 1935-1936.

† Resigned.

41-42. ANCIENT AND MEDIEVAL HISTORY: GENERAL COURSE. (10).

A course dealing with the history of civilization from its beginnings to 1500 A. D. The first half of the course is devoted to the Orient, Greece, and Rome to the time of Constantine; the second half, to Western Europe in particular, from the time of Rome's decline to the age of the Renaissance and Reformation. Sophomore elective. *Five hours a week, winter and spring quarters.* Professors Caldwell, MacKinney.

44-45-46. ENGLISH HISTORY: GENERAL COURSE. (9).

A survey course in British history from early times to the present. Textbooks, readings, lectures. Sophomore elective. *Three hours a week throughout the year.* Professor Wagstaff.

51. THE ORIENT AND EARLY GREECE. (5).

The history of the Bronze Age in the Mediterranean, the beginning of civilization in Egypt, Babylonia, Syria and Palestine, and Crete, and the history of their development down to the time of the Persian Empire. *Five hours a week, fall quarter.* (1937 and alternate years.) Professor Caldwell.

52. GREECE: THE CLASSICAL PERIOD. (5).

A history of the classical period of ancient Greece. Particular attention will be given to the growth of democracy, social and economic aspects, artistic, literary, and religious developments. (1936 and alternate years.) *Five hours a week, spring quarter.* Professor Caldwell.

53. HELLENISTIC GREECE AND THE ROMAN REPUBLIC. (5).

A survey of the Greek world in the post-Alexandrian epoch and the history of Rome to the death of Caesar. *Five hours a week, fall quarter.* (1936 and alternate years). Professor Caldwell.

54. THE ROMAN EMPIRE. (5).

The history of Rome from Augustus to Constantine; the organization and administration of the Roman Empire; social, economic, and religious conditions and developments; the decline of ancient culture, and the rise of Christianity. *Five hours a week, spring quarter.* (1937 and alternate years). Professor Caldwell.

64. EARLY MEDIEVAL EUROPE: THE "DARK" AGES (300-1000). (5).

The evolution of medieval civilization from declining Rome, victorious Christianity, and migrating Germanic peoples to the disintegration of the empire of Charles the Great. Government, religion, and culture during the "Dark" Ages. *Five hours a week, fall quarter.* Professor MacKinney.

65. EUROPE IN THE CRUSADING AGE (1000-1300). (5).

The rise of national monarchies, chivalry, towns, and the Church; the expansion of Europe in the Crusades; the struggle between Church and State; the rise of Universities; Romanesque and Gothic architecture; the climax of medieval civilization in the XII and XIII centuries. *Five hours a week, winter quarter.* Professor MacKinney.

66. THE AGE OF THE RENAISSANCE (1250-1550). (5).

The evolution of modern civilization in Italy and the transalpine countries; the blending of medieval and classical elements; the political and economic background; the rise of national states and vernacular literatures; the arts; literature; humanism; education; discovery and invention. *Five hours a week, spring quarter.* Professor MacKinney.

71-72. (47-48). AMERICAN HISTORY: GENERAL COURSE. (10).

A general survey of the history of the United States. Lectures, textbooks, readings. Junior-senior elective. Both 21-22-23 and 71-72 may not be taken foı credit by a student. *Five hours a week, winter and spring quarters.* Professor Lefler.

85. ECONOMIC HISTORY OF THE NINETEENTH CENTURY. (5).

Open only to students in the School of Engineering. Special emphasis on European nations and the United States. *Five hours a week, spring quarter.* Professor Garrett.

91. HISPANIC-AMERICAN COUNTRIES DURING THE NATIONAL PERIOD. (5).

A general course concerned with the political, social, economic, and cultural history of these countries from independence to the present time. Lectures, readings. *Five hours a week, spring quarter.* Professor Pierson.

### Courses for Graduates and Advanced Undergraduates

101. PERIOD STUDIES IN GREEK HISTORY. (5).

This course will be devoted to an intensive study of the sources, literature and historical problems of a selected period of Greek History. In 1938, attention will be directed to the history of the Greek World during the Fourth Century B. C. *Five hours a week, spring quarter.* (1938 and alternate years). Professor Caldwell.

102. PERIOD STUDIES IN ROMAN HISTORY. (5).

A course in a selected period of Roman History, given for the same class of students and under the same conditions as History 101. The period to be treated in 1937 will be the Age of Augustus. *Five hours a week, spring quarter.* (1937 and alternate years). Professor Caldwell.

121. MEDIEVAL CIVILIZATION. (5).

An intensive study of the classical culture heritage and of the evolution of culture during the Middle Ages. Lectures, readings, reports. *Five hours a week, fall quarter.* (1937 and atlernate years). Professor MacKinney.

122. SOCIAL-ECONOMIC HISTORY OF THE MIDDLE AGES. (5).

An intensive study of the social and economic life of the Middle Ages. Lectures, readings, reports. *Five hours a week, fall quarter.* (1936 and alternate years). Professor MacKinney.

131. THE PROTESTANT REVOLT. (5).

Europe in the Sixteenth Century. *Five hours a week, fall quarter.* Professor Garrett.

132. THE RISE OF ABSOLUTISM IN EUROPE. (5).

Europe in the Seventeenth Century. *Five hours a week, winter quarter.* Professor Garrett.

133. THE FRENCH REVOLUTION. (5).

An intensive study of the causes, events, and results of the French Revolution. *Five hours a week, fall quarter.* Professor Garrett.

134. THE NAPOLEONIC PERIOD. (5).

Particular attention paid to effects on the states surrounding France and to results in Europe. *Five hours a week, winter quarter.* Professor Garrett.

135. RISE OF DEMOCRACY AND NATIONALISM IN MODERN EUROPE. (5).

Europe from 1815 to 1870. *Five hours a week, spring quarter.* (1938 and alternate years). Professor Garrett.

136. RECENT AND CONTEMPORARY EUROPEAN HISTORY. (5).

The World War and its aftermath. *Five hours a week, spring quarter.* (1937 and alternate years). Professor Garrett.

138. ENGLAND FROM 1603 TO 1760. (5).

The national development and expansion of the British state during the period covered. Lectures, readings. *Five hours a week, fall quarter.* Professor Wagstaff.

139. GREAT BRITAIN FROM 1760 TO THE PRESENT. (5).

Evolution of the British state as shaped by modern forces. Lectures, readings. *Five hours a week, winter quarter.* Professor Wagstaff.

143. THE DIPLOMATIC HISTORY OF THE UNITED STATES. (5).

A course designed to present the experiences of the United States in its relations with other nations from independence to the present time. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Frazer.

149. THE AMERICAN COLONIES, 1606-1689. (5).

A survey of European backgrounds and a study of the founding of England's continental colonies; their political, social, economic, and cultural development; and their relations to each other and to the British Empire. Lectures, readings, reports. *Five hours a week, fall quarter.* Professor Lefler.

150. THE AMERICAN COLONIES, 1689-1783. (5).

A study of the political, social, economic, and cultural history of the colonies from 1689 through the American Revolution. Lectures, readings, reports. *Five hours a week, winter quarter.* Professor Lefler.

151. THE FEDERAL PERIOD, 1783-1815. (5).

A study of the Articles of Confederation, the formation and adoption of the Federal Constitution, the launching of the government, Jeffersonian democracy, the westward movement, and the Second War for Independence. Lectures, readings, reports. *Five hours a week, fall quarter.* Professor Newsome.

152. THE ANTE-BELLUM PERIOD, 1815-1860. (5).

A study of the westward movement, states-rights philosophy, Jacksonian democracy, development of nationalism, controversy over negro slavery, and the causes of the war for Southern Independence. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Newsome.

153. SECESSION AND CIVIL WAR. (5).

The course deals with the secession movement before 1860, and the inportant constitutional, political, and economic aspects of the Civil War in the United States. Lectures, readings, reports. *Five hours a week, winter quarter.* Professor Green.

154. THE RECONSTRUCTION PERIOD. (5).

The course deals with the constitutional, political, social, and economic aspects of the period, 1865-1877. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Green.

155. RECENT AMERICAN HISTORY, 1876-1898. (5).

Emphasis will be placed on the influence of the Civil War and Reconstruction upon subsequent American history; the war amendments in theory and practice; business and politics; the Granger movement; the currency question; the tariff legislation; the trust problem; foreign relations; the Spanish-American War and its results; party politics; political dissent; and interpretation of democracy. Lectures, textbooks, readings. *Five hours a week, fall quarter.* Professor Pierson.

156. RECENT AMERICAN HISTORY, 1898-1936. (5).

The course deals with the political, constitutional, economic, social, and intellectual problems of the newly industrialized nation and with the history of the foreign relations of the United States as a world power. Lectures, textbooks, readings, reports. *Five hours a week, winter quarter.* Professor Beale.

161. NORTH CAROLINA, 1584-1789. (5).

A survey of the political, social, economic and cultural development of North Carolina from the first settlement until its entrance into the Federal Union in 1789. Lectures, readings, reports. *Five hours a week, fall quarter.* Professor Lefler.

162. NORTH CAROLINA, 1789-1900. (5).

A survey of political, economic, social and cultural development in North Carolina since it entered the Union in 1789. Lectures, readings, reports. *Five hours a week, winter quarter.* Professor Newsome.

163. THE SOUTH, 1789-1860. (5).

A course dealing with the Southern States with emphasis upon social, economic, and political organization and movements. Lectures, readings, reports. *Five hours a week, fall quarter.* Professor Green.

164. THE SOUTH, 1877-1925. (5).

The course deals with the political, economic, social, and intellectual development of the South since the close of Reconstruction. Lectures, readings, reports. *Five hours a week, winter quarter.* Professor Green.

165. HISTORY OF THE WEST. (5).

A study of the westward movement and of frontier civilization in the area now comprising the United States from the time of exploration and settlement to 1815. Lectures, readings, reports. *Five hours a week, fall quarter*, (1938 and alternate years). Professor Newsome.

166. HISTORY OF THE WEST. (5).

A study of the westward movement and of frontier civilization in the United States from 1815 to the opening of the twentieth century. Lectures, readings, reports. *Five hours a week, fall quarter.* (1937 and alternate years). Professor Newsome.

167. ECONOMIC HISTORY OF THE UNITED STATES, 1783-1860. (5).

A study of agriculture, transportation, commerce, manufacturing, and similar aspects of American history, 1783-1860. The influence of economic factors upon social and political life will be discussed. Lectures, readings, reports. *Five hours a week, spring quarter.* (1938 and alternate years). Professor Lefler.

168. ECONOMIC HISTORY OF THE UNITED STATES, 1860-1925. (5).

A particular effort will be made to show the effects upon American life of the great economic revolution which has occurred since the Civil War. Lectures, readings, reports. *Five hours a week, spring quarter.* (1937 and alternate years). Professor Lefler.

170. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES. (Education 143). (5).

The social and educational institutions and practices of the United States are traced through: (a) the period of transplanting of European institutions; (b) the period of modifications of institutional life to meet new conditions; and (c) the period of development of a social and an educational system of free common schools, high schools, and higher and technical education. Textbook, lectures, investigations, reports. *Five hours a week, fall or spring quarter.* Professor Knight.

## DEPARTMENT OF JOURNALISM

Professor: O. J. COFFIN
Instructor: WALTER SPEARMAN

30. COLLEGE REPORTING. (3 or 5).

A course with a maximum credit of five quarter-hours for reporting done on the student daily under the supervision of the Department of Journalism.

31. COLLEGE EDITING. (3 or 5).

A similar credit course for those who do the editorial work of the student newspaper.

53. NEWS WRITING. (5).

A course in elementary news writing devoted to practical work in the classroom. Prerequisite for Journalism 54. *Five hours a week, fall quarter. Laboratory fee, $2.00.* Professor Coffin; Mr. Spearman.

54. NEWS WRITING. (5). Prerequisite, Journalism 53 or the equivalent.

A continuation of the work in Journalism 53, with the addition of some copy-reading. Prerequisite for Journalism 55. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professor Coffin; Mr. Spearman.

55. NEWS WRITING. (5). Prerequisite, Journalism 53 and 54.

A continuation of Journalism 54, with more emphasis on assignments. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Coffin; Mr. Spearman.

56ab. FEATURE WRITING. (3 each quarter).

A course for advanced students in the production of feature stories and feature articles, with a view to making them marketable. Either half may be taken independently. *Three hours a week, winter and spring quarters.* Professor Coffin.

57. NEWS METHODS AND TREATMENTS. (3).

A study of contemporary newspapers and of prevailing methods of handling news. Desk work. *Three hours a week, fall quarter. Laboratory fee, $2.00.* Professor Coffin; Mr. Spearman.

58. EDITORIAL WRITING. (3).

Comparative examination of policies and relations. Editorial writing. *Three hours a week, spring quarter.* Professor Coffin.

59. WEEKLY NEWSPAPER EDITING. (3).

A study of the functions of the weekly newspaper, with practical instruction in meeting the problems of the neighborhood news medium. *Three hours a week, winter or spring quarter.* Professor Coffin.

60. BOOK REVIEWING AND DRAMATIC CRITICISM FOR NEWSPAPERS. (3).

A course in book reviewing and covering plays and motion pictures from the newspaper point of view. *Three hours a week, winter quarter.* Mr. Spearman.

## *DEPARTMENT OF MATHEMATICS

Professors: ARCHIBALD HENDERSON, J. W. LASLEY, JR., A. W. HOBBS, E. T. BROWNE, E. L. MACKIE.

Associate Professors: A. S. WINSOR, J. B. LINKER, M. A. HILL.

Assistant Professors: V. A. HOYLE, L. L. GARNER.

Instructors: E. A. CAMERON, R. L. GARRETT.

### Courses for Undergraduates

1-2-3. INTRODUCTORY MATHEMATICS. (9). Required of Freshmen.

Professors Lasley, Hobbs, Browne, Mackie, Winsor, Linker, Hill, Hoyle, Garner; Messrs. Cameron, Garrett.

21-22-23 (11-12-13). SECOND YEAR MATHEMATICS. (9). Prerequisite, Mathematics 1-2-3 or equivalent. Professor Henderson.

31-32-33 (23-24-25). SECOND YEAR MATHEMATICS: INTENSIVE COURSE. (15). Prerequisite, Mathematics 1-2-3 or equivalent.

A course designed primarily for students in the Division of Natural Science whose major is mathematics and who therefore want a more intensive course in the principles and methods of analytic geometry and the calculus. The concepts of the straight line and the conic sections and certain special plane curves are considered with especial consideration of the problems of loci. The fundamental concepts of both the differential and the integral calculus are developed with application of a somewhat extended nature to situations in geometry, physics, and mechanics. These courses, though consecutive, may be taken separately in the order named for credit. Sophomore elective. *Five hours a week for the year.* Professor Mackie.

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* For A.B. with major in Mathematics, there are required: Math 31-32-33, 131, 141; and one of the following: Math. 101, 111, 141, 151, 161, 171; also Physics 21-22-23 and 4 courses from Physics, Chemistry, Geology, Botany, Zoölogy, Philosophy.

NOTE: If Mathematics 31-32-33 are taken in the Sophomore year, the Department recommends that 6 courses be taken in the Junior and Senior years, namely: 131, 141; and four from 101, 111, 151, 161, 171, or others.

In general six courses will be taken in allied Departments and six in extra-Divisional Departments.

Those students who plan to teach in public schools should read the footnote at the bottom of page 67.

41, 42, 43. DRAWING, SURVEYING, AND MAPPING. (3 each). Courses 42 and 43 may be taken without course 41.

These courses are designed for students of geology and for those who are preparing to teach mathematics in high school. In the case of the latter only courses 42 and 43 are required. *Two lecture and two laboratory or field work hours a week, through the year.* Professor .....

## Courses for Graduates and Advanced Undergraduates

101 (123-124). ADVANCED PLANE ANALYTIC GEOMETRY. (3). Prerequisite, Mathematics 31-32-33.

This course is designed to present to the student who has taken Mathematics 31 an enlarged conception of analytic geometry of the plane, with many modern developments of the subject. Among the topics treated are the formation of coördinates, the general equation of the second degree, a general study of loci, parametric representation of curves, polar coördinates, invariant properties of conics, intersections of curves, systems of curves, etc. *Three hours a week, fall quarter.* Professor Henderson.

103. INTRODUCTION TO HIGHER GEOMETRY. (5). Prerequisite, Mathematics 33.

This is a teacher's course for graduate credit, especially devised for teachers who are candidates for the A.M. degree. The course deals with the properties of the triangle and circle from the modern point of view, poles and polars, harmonic division, transformation by reciprocal radii, Brocard points and circles, etc. *Five hours a week, fall quarter.* Professor Winsor.

104. INTRODUCTION TO ADVANCED ALGEBRA. (5). Prerequisite, Mathematics 33.

This course supplements Mathematics 103. It is designed especially for teachers, and serves to bridge the gap between elementary algebra and Mathematics 246. Selected topics in advanced algebra, including such subjects as linear and quadratic forms, limits and series, complex numbers, elementary groups, etc. *Five hours a week, winter quarter.* Professor Winsor.

111. ELEMENTARY MATHEMATICAL STATISTICS. (5). Prerequisite, Mathematics 33 or equivalent.

A course dealing with the elementary theory and applications of mathematical statistics, treating in detail the following topics: graphs, averages, dispersion, skewness, sampling, probable error, frequency curves and correlation. The course is designed to serve as a background for students dealing with statistical and observational data. *Five hours a week, spring quarter.* Professor Hill.

121. THEORETICAL MECHANICS. (5).

An introductory course in mechanics employing the methods of the calculus. *Five hours a week, spring quarter.* Professor Linker.

131. THEORY OF EQUATIONS. (5). Prerequisite, Mathematics 33.

Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degree, transformations, determinants, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and the basic principles of the formation, handling, and evolution of equations. *Five hours a week, winter quarter.* Professor Hoyle.

141. DIFFERENTIAL EQUATIONS. (5). Prerequisite, Mathematics 32 and 33, or 24E and 25E.

This is a course both for students intending to specialize in mathematics and for students in advanced engineering, civil, electrical, and chemical. Among the subjects treated are singular solutions, applications to mechanics, geometry, and physics, linear equations with both constant and variable coefficients, equations involving more than two variables, partial differential equations, and spatial forms. *Five hours a week, fall quarter.* Professor Linker.

151. PROJECTIVE HOMOGENEOUS COÖRDINATES AND THEIR APPLICATIONS. (5). Prerequisite, Mathematics 33.

A study of the general homogeneous coördinates of forms of one, two, three, and four dimensions; cross ratio and its properties; ideal elements; duality; projective correspondence; transformation of coördinates; the elements of line geometry. *Five hours a week, fall quarter.* Professor Lasley.

152. ANALYTIC PROJECTIVE GEOMETRY. (5). Prerequisite, Mathematics 151.

The projective theory of binary forms; the conic as a rational curve; the conic as a ternary form; the conic from the viewpoint of the theory of correlations; functional determinants and invariants; selected topics from higher geometry. *Five hours a week, winter quarter.* Professor Lasley.

161. ANALYTIC GEOMETRY OF SPACE. (5). Prerequisite, Mathematics 33.

Spatial relations are treated from the analytic standpoint. Deals with quadric surfaces, envelopes, foci, quadriplanar and tetrahedral coördinates, developable surfaces, curves in space, curvature of surfaces, higher surfaces, etc. *Five hours a week, spring quarter.* Professor Henderson.

171. ADVANCED CALCULUS. (5). Prerequisite, Mathematics 33.

This course completes and rounds out the subject as given in Mathematics 33. Stress upon rigor in demonstration. Designed to meet the particular needs of the class, e.g., problem course on study of special functions. Thorough knowledge of calculus is the aim of the course. *Five hours a week, spring quarter.* Professor Mackie.

## *DEPARTMENT OF MUSIC

Professor: GLEN HAYDON.
Associate Professor: B. F. SWALIN.
Assistant Professors: E. A. SLOCUM, J. P. SCHINHAN.

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* The courses in Music are designed to perform a three-fold function in the University: (a) to give the student electing music as his chief interest a thorough training in the practical, theoretical, and historical aspects of the subject as a part of the general liberal arts curriculum for the A.B. degree; (b) to give the student interested in the scholarly aspects of the subject the basic training necessary for successful graduate work; (c) to afford students in other departments the opportunity to take music as an elective for its cultural value in the liberal arts program.

*Course leading to the A.B. degree with Music as the Major.* Students who take Music as the major must modify the regular program for the first two years in order to begin Music their first year. They will take Freshman English, a foreign language, two courses in Music (4-5-6 and 14-15-16), and either Mathematics or Latin or Greek, or the regular Freshman course in Social Science, or the regular Freshman course in Natural Science. Courses in the regular Freshman program postponed to make way for the Music must be taken at some later time. Similar arrangements must be made in the sophomore year to provide for Music 24-25-26 and 44-45-46. See page 96 of this catalogue.

The undergraduate major in Music consists of from thirty-six to forty-five quarter hours beyond the Freshman-Sophomore requirements and must include Music 61-62-63, 74-75-76, and 101-102-103 or 124-125-126. Attention is called to the special requirements in applied music. See page 97.

## Courses for Undergraduates

4-5-6. NOTATION, SIGHT-SINGING, AND DICTATION. (9). Freshman requirement for those who will have music as a major.

14-15-16. HARMONY. (9). Prerequisite or corequisite, Music 4-5-6.

Freshman requirement for those who will have music as a major. By special permission 4-5-6 may be taken concurrently.

24-25-26. THE HISTORY OF MUSIC. (9). Sophomore requirement for those who will have music as a major.

This general course in the history of music is divided into three parts any one of which may be taken separately: (1) the period from antiquity to the end of the sixteenth century; (2) the seventeenth and eighteenth centuries; (3) from the Romantic period to the present day. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

44-45-46. ADVANCED HARMONY. (9). Prerequisite, Music 14-15-16. Sophomore requirement for those who will have music as a major.

*Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

54. INSTRUMENTAL MUSIC OF THE CLASSICAL PERIOD. (5).

Representative compositions by Purcell, Bach, Handel, Mozart, Haydn, Beethoven, and others will be used as a basis for the study of typical forms and styles of instrumental music from the viewpoint of the listener. The course is illustrated by phonographic recordings and actual performances of works for orchestras, chamber music combinations, and pianoforte. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of a major. *Five hours a week, fall quarter.* Professor Swalin.

55. INSTRUMENTAL MUSIC OF THE ROMANTIC AND MODERN PERIODS. (5).

Similar to course 54 but dealing with the instrumental compositions of the Romantic and Modern composers. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of the major. *Five hours a week, winter quarter.* Professor Swalin.

56. TYPICAL FORMS AND STYLES OF VOCAL MUSIC. (5).

Similar to Music 54, this course will be devoted to the study of such vocal music as the madrigal, motet, art song, the opera, and oratorio. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of the major. *Five hours a week, fall quarter.* Professor Swalin.

61-62-63. MODAL COUNTERPOINT IN THE 16TH. CENTURY STYLE. (9). Prerequisite, Music 14, 15, 16.

Study and practice of the contrapuntal technique of the 16th. century; the writing of simple motets. *Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

71-72-73. INSTRUMENTATION, ORCHESTRATION, AND ELEMENTARY CONDUCTING. (9).

A course in the study of the principles and practice of instrumentation for orchestra and band, elementary score reading, and conducting. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

74-75-76. ANALYSIS AND COMPOSITION IN THE SMALLER FORMS. (9).

*Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

## Applied Music

The following courses in applied music are open to students in any department of the University having the necessary technical equipment. The work in applied music is regarded not merely as technical training in performance, but also as a study of the standard literature for the particular instrument or ensemble group. Credit in general will be given on the basis of one quarter hour credit a year in the first and second years; two quarter hours credit a year in the third and fourth years. For those whose major is not music a total credit not to exceed ten quarter hours may be counted as electives in the A.B. curriculum. Those whose major is music must offer at least ten quarter hours in applied music and may offer a total not to exceed twenty-five quarter hours in this field, of which not more than ten may be in ensemble courses. All students with majors in music, unless given special permission by the Head of the Department, must continue individual instruction in applied music throughout the four years.

The general prerequisite for entrance into the first year courses is ability to perform music of difficulty rated as grade three for the particular instrument. Students who do not have this prerequisite will repeat the preparatory course without credit until they qualify for the freshman course. The candidate for the A.B. degree with a major in music must complete as a minimum the freshman course in his chosen field of applied music. Students electing some other instrument than piano for their work in applied music must demonstrate sufficient pianistic ability to enable them to meet the practical requirements of the course to be pursued. This is interpreted to mean the ability to play at sight hymns or compositions of similar difficulty.

Students seeking the A.B. degree with a major in music will be required to participate in the musical organizations of the department, and those in the advanced applied music course must take part in recitals as prescribed by the department.

Note: The following regulations govern individual instruction in Applied Music Courses A. B. C. D. and E. Fees for individual instruction are: $18.00 a quarter for one lesson a week; $36.00 a quarter for two lessons a week. Practice rooms and periods are assigned at the music department office. Fee for one hour daily practice period (room with piano), $3.00 a quarter; fee for two hours daily practice, $5.00 a quarter. Fee for six hours practice a week on Reuter four manual organ, $15.00 a quarter. All fees for applied music and practice must be paid at the office of thee Department of Music.

## Individual Instruction

A. PREPARATORY ORGAN. No credit.

The aim of this course is to give the student the preliminary training on a keyboard instrument required for entrance into the course 1A. *One or two half-hour lessons and six or twelve hours practice a week, every quarter.* Professor Schinhan.

1A-2A-3A. FIRST YEAR ORGAN. (1 or 2). Prerequisite, ability to play music for a keyboard instrument of the difficulty of Heller, Op. 45, 46, 47; Bach Two-Part Inventions; scales and arpeggios in moderate tempo; simple hymns (at sight). Value, 1 or 2 quarter hours respectively for one or two lessons and six or twelve hours of practice a week throughout the year. Professor Schinhan.

21A-22A-23A. SECOND YEAR ORGAN. (1 or 2). Prerequisite, Music 1A-2A-3A. Value, hours, and fee as in 1A-2A-3A. Professor Schinhan.

51A-52A-53A. THIRD YEAR ORGAN. (2 or 4). Prerequisite, Music 21A-22A-23A. Value, 2 or 4 quarter hours, respectively, for one or two lessons and six or twelve hours practice a week throughout the year. Professor Schinhan.

81A-82A-83A. FOURTH YEAR ORGAN. (2 or 4). Prerequisite, Music 41A-42A-43A. Value, hours, and fee as in third year organ. Professor Schinhan.

Similar numbering and description with regard to value, hours, fees, and prerequisite apply to each of the courses B, C, D, and E.

B. PIANO. Professor Schinhan, Mr. Hansen.

C. VOICE. Mr. Miller.

D. VIOLIN. Professor Swalin.

E. FLUTE, or other band or orchestral instrument. Professor Slocum.

### Ensemble Groups

1F-2F-3F. FIRST YEAR BAND, (1 for year). Prerequisite, approval of instructor based upon a "try-out" given at the beginning of each quarter. *A minimum of two hours a week throughout the year.* Professor Slocum.

21F-22F-23F. SECOND YEAR BAND. (1 for year).
Hours and value as in preceding course. Professor Slocum.

51F-52F-53F. THIRD YEAR BAND. (2 a year).
*A minimum of two hours a week throughout the year.* Professor Slocum.

81F-82F-83F. FOURTH YEAR BAND. (2 a year).
Hours and value as in the preceding course. Professor Slocum.

Similar numbering, prerequisites, value, and hours apply to each of the following courses in applied music:

1G. ORCHESTRA. Professor Swalin.

1H. GLEE CLUB. Mr. Miller.

1I. PIANO ENSEMBLE, OR OTHER INSTRUMENTAL ENSEMBLE.
Professors Slocum, Swalin; Mr. Hansen.

### Courses for Graduates and Advanced Undergraduates

101-102-103. MUSICOLOGY. (9). Prerequisite, a reading knowledge of one or more of the important foreign languages, a fair knowledge of musical theory, and some skill in practical applied music.

A study of the problems and methods in the various fields, historical and systematic, of musical research. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

124. MUSICAL IMPRESSIONISM. (3). Prerequisite, Music 24-25-26 and 44-45-46.

A critical analysis of representative works of composers of the impressionistic movement in music. An effort will be made to correlate the movement in music with analogous developments in the other arts. *Three hours a week, fall quarter.* Professor Swalin.

125. MUSICAL EXPRESSIONISM. (3). Prerequisite, Music 24-25-26 and 44-45-46.

The study of certain twentieth century tendencies in musical composition. *Three hours a week, winter quarter.* Professor Swalin.

126. MODERN FRENCH COMPOSERS. (3). Prerequisite, Music 24-25-26 and 44-45-46.

The French composers Franck, Faure, Chausson, Massenet, D'Indy, and Saint-Saëns. *Three hours a week, spring quarter.* Professor Swalin.

161-162-163. FREE COUNTERPOINT, CANON AND FUGUE. (9). Prerequisite, Music 61-62-63.

A study of contrapuntal procedure with particular reference to the style of Bach. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

174-175-176. ANALYSIS AND COMPOSITION IN THE LARGER FORMS. (9). Prerequisite, Music 74-75-76.

*Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

## *DEPARTMENT OF PHILOSOPHY

Professor: **H. H. WILLIAMS.
Associate Professor: S. A. EMERY.
Instructor: L. O. KATTSOFF.
Lecturer: F. F. BRADSHAW.

### Courses for Undergraduates

21-22-23. INTRODUCTION TO THE METHODS OF THOUGHT. (9). Sophomore elective. Mr. Kattsoff.

24-25-26. INTRODUCTORY METAPHYSICS, ETHICS, AND POLITICAL PHILOSOPHY. (9). Sophomore elective. Professor Emery; Dean Bradshaw.

41. INTRODUCTION TO PHILOSOPHY. (5).

This course is intended to serve as an introduction to later work in philosophy; but its main purpose is to give a general view of philosophy to those who may take no further courses in the subject. Lectures and discussions. *Five hours a week, fall quarter.* Professor Emery.

56. THE DEVELOPMENT OF PHILOSOPHY: ANCIENT AND MEDIEVAL. (5).

The growth of philosophic problems from the dawn of Greek philosophy through the Middle Ages. *Five hours a week, fall quarter.* Professor Emery.

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* A student who desires to take a major in Philosophy in the Division of Social Sciences should take either Philosophy 24-25-26 or Philosophy 41 in the General College. The major would then consist of the following courses: Philosophy 56, 57, 131, 132, 171, 172. If the student has not had in the General College the preliminary courses mentioned above, then Philosophy 133 would be added to the major requirement. Six courses are required in other departments within the Division of the Social Sciences and six courses in other Divisions, to be selected by the Adviser and the student in consultation.

Students majoring in Philosophy in the Natural Science Division will take philosophy 56, 57, 134, 135, 141, 142. They will also be required to select six courses in the Division of the Natural Sciences, spreading the courses through the sciences as much as possible, and six courses from outside the Division. It is recommended for such students that they select Philosophy 21-22-23 during their Sophomore year.

** Kenan Professor Emeritus.

57. THE DEVELOPMENT OF PHILOSOPHY: MODERN. (5).

The growth of philosophic problems from the end of the Middle Ages through the nineteenth century. *Five hours a week, winter quarter.* Professor Emery.

62. PLATO AND ARISTOTLE. (5). Prerequisite, Philosophy 56.

A reading course in the principal works of Plato and Aristotle. *Five hours a week, winter quarter.* Professor Emery.

63, 64. CONTEMPORARY PHILOSOPHY. (5 each).

A study of Naturalism, Idealism, Realism, and Pragmatism as contemporary outgrowths of important movements in the history of philosophy. *Five hours a week, winter and spring quarters.* Professor Emery.

66. INTRODUCTION TO THE METHODS OF THOUGHT. (5).

An introductory study of the categories and forms of inference with special reference to applications. The relative importance of form and content in reasoning is analyzed. The purpose of the course is to show the student how to think and to enable him to start thinking. The same ground is covered as in Philosophy 21-22-23. Open to Juniors and Seniors only. *Five hours a week, winter quarter.* Mr. Kattsoff.

76. AESTHETICS. (5).

A study of what is known as art or the beautiful, and an inquiry into some of the critical and psychological questions involved. *Five hours a week fall quarter.* Professor .....

96. THE PHILOSOPHY OF RELIGION. (5).

A study of the historical development of Brahmanism, Buddhism, the religions of Greece and Rome, Judaism, and Christianity. Philosophical problems of religious belief. *Five hours a week, fall or spring quarter.* Professor .....

## Courses for Graduates and Advanced Undergraduates

121. KANT. (5). Prerequisite, Philosophy 57.

A study of Kant's Critical Philosophy, as rooted in eighteenth century Empiricism and Rationalism, and as initiating German Idealism. Lectures, readings, and discussion. *Five hours a week, spring quarter.* Professor Emery.

131-132-133. LOGIC AND CIVILIZATION. (15).

The purpose of this course is to show how intelligence works both in the individual and in the currents of thought that constitute civilization. The student will be furnished a kit of tools with which to solve some of the problems which will confront him in living his own life and understanding the world about him. *Five hours a week, fall, winter, and spring quarters.* Mr. Kattsoff.

134, 135. AN INTRODUCTION TO SYMBOLIC METHODS OF THOUGHT. (5 each).

The new symbolic approach to the logic of classes, propositions, propositional functions, modal systems, and the nature of implication. Credit for 134 without 135, but 134 is prerequisite for 135. *Five hours a week, winter and spring quarters.* Mr. Kattsoff.

141. THE LOGIC OF MATHEMATICS. (5).

Analysis of the fundamental concepts of mathematics. Its logical development; recent controversies on its foundations. *Five hours a week, fall quarter.* Mr. Kattsoff.

142. THE LOGIC OF THE PHYSICAL AND BIOLOGICAL SCIENCES. (5).

The logical categories of physics and biology; their role in the development of these sciences. Scientific inference, its general nature and relation to logic. *Five hours a week, spring quarter* Mr. Kattsoff.

171, 172, 173. ETHICS. (5 each).

A survey of ethics, historical and contemporary. The first quarter is concerned with the beginnings of ethical standards in the historical religions of the world and the subsequent development of ethical theory. The second quarter traces the contributions to the theory of values made by the scientific developments of the last two centuries. The third quarter is devoted to contemporary ethical problems, economic, political and personal; and the logical foundation of ethical theory. Lectures, discussion, and directed reading. *Five hours a week, fall, winter, and spring quarters.* Dean Bradshaw.

## *DEPARTMENT OF PHYSICS

Professors: A. E. RUARK, O. STUHLMAN, JR., K. H. FUSSLER, E. K. PLYLER.
Assistant Professor: J. H. WHEELER.
Instructor: E. S. BARR.

### Courses for Undergraduates

1-2-3. DESCRIPTIVE PHYSICS. (12). Fulfills freshman science requirement.

*Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter.* Lectures: Professor Ruark. Discussion period: Professor Ruark; Mr. Barr. Laboratory: Professor Fussler; Assistants.

21-22-23. GENERAL PHYSICS. (12). Prerequisite, Freshman Mathematics.

*Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter.* Lectures: Professor Fussler. Discussion period: Professor Fussler; Messrs. Barr, Jones, and Smith. Laboratory: Professor Fussler; Assistants.

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* For A.B. with Major in Physics (Math. 1-2-3, Chemistry 1-2-3, Physics 21-22-23, Math. 11-12-13 or preferably, 31-32-33, should have been completed in the General College): Physics 41, 52, 53, 54, 55, 56 or the equivalent; six courses in other Natural Sciences including Math 141 and, for students with mathematical tendencies, one other course in Mathematics, or for students with experimental tendencies, at least three courses in Chemistry (from 41, 61, 81, 182); six electives from Departments not in the Division of the Natural Sciences, with English 51 *strongly recommended* and, for students with mathematical tendencies, Philosophy 141-142.

For S.B. in Physics there should have been taken in the General College: two years of mathematics (1-2-3, 31-32-33), two years each of English and German, Social Science 1-2-3, Chemistry 1-2-3 and either Chemistry 31 and Physics 24-25 or Physics 21-22-23); five to eight courses in Physics (from 41, 52, 53, 54, 55, 56, 110, 140, 160), three in Chemistry (from 31, 42, 61, 81, 182), Math. 141 and 171, and four to seven electives of which at least four must be in departments outside the Division of the Natural Sciences; English 51 is strongly recommended.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

24-25. GENERAL PHYSICS. (12).

A five-hour course covering physics in two quarters. Identical with Physics 21-22-23 in subject matter, textbook, total credit, and prerequisite work.

*Five lecture and three laboratory hours a week. Laboratory fee, $4.00 a quarter.* Lectures: Professor Stuhlman. Laboratory: Professor Fussler; Assistants.

41. ASTRONOMY. (5).

A general course in descriptive and historical astronomy; lectures and recitations, with use of lantern slides, star-maps, telescope, and other instruments. Text: Duncan, *Astronomy. Five hours a week with occasional observations, spring quarter.* Professor Fussler.

51. X-RAY TECHNIQUE: BIOPHYSICS. (6). Prerequisite, Physics 21-22-23 or 24-25.

Laboratory work in roentgenographic technique. Physical aspects of X-ray tubes and high voltage generators. Problems dealing with biophysical technique. Primarily for students who will enter the medical profession. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $15.00.* Professor Stuhlman.

52. MECHANICS. (5). Prerequisite, Physics 21-22-23 or 24-25.

Text: Ericson, *Elements of Mechanics. Four lecture and two laboratory hours a week, winter quarter.* (1938 and alternate years). *Laboratory fee, $1.00.* Professor Fussler.

53. OPTICS. (5). Prerequisite Physics 21-22-23 or 24-25.

Geometrical and physical optics. Text: Robertson, *Introduction to Physical Optics. Four lecture and two laboratory hours a week, fall quarter.* (1937 and alternate years). *Laboratory fee, $3.00.* Professor Stuhlman.

54. MODERN DEVELOPMENTS IN PHYSICS. (5). Prerequisite, Physics 21-22-23 or 24-25, except by permission.

Particularly for students majoring in other fields, who wish a knowledge of twentieth-century physics. *Five hours a week, spring quarter.* Under the direction of Professor Wheeler. Lectures by Professors Fussler, Plyler, Ruark, Stuhlman, and Wheeler.

55. ELECTRICITY AND MAGNETISM. (5). Prerequisite, Physics 21-22-23 or 24-25.

A course suited to the needs of students in all sciences. Laboratory work including the use of direct current instruments, alternating current phenomena, and radio experiments. Text: Loeb, *Fundamentals of Electricity and Magnetism. Four lecture and two laboratory hours a week, fall quarter.* (1936 and alternate years). *Laboratory fee, $3.00.* Professor Fussler.

56. HEAT. (5). Prerequisite, Physics 21-22-23 or 24-25.

Temperature measurements, calorimetry, radiation, heat conduction, elements of kinetic theory of gases and of thermodynamics. Text: Barton, *Heat. Four lecture and two laboratory hours a week, winter quarter.* (1937 and alternate years). *Laboratory fee, $3.00.* Professor Plyler.

57. BIOPHYSICS. (5). Prerequisite, Physics 21-22-23 or 24-25.

Especially for students who expect to enter the medical profession. Physics of the human sense organs; illumination, radiant energy, colorimetry, the

optical system of the microscope; medical application of electricity; molecular physics in relation to biology. *Two lecture, one discussion, and four laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

91, 92. RESEARCH FOR SENIORS. (5 each).

*Laboratory fee, $5.00.* Professors Fussler, Plyler, Ruark, Stuhlman.

## Courses for Graduates and Advanced Undergraduates

101. INTRODUCTION TO MATHEMATICAL PHYSICS. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Mathematical treatment of dynamics, statistical mechanics, thermodynamics, and electricity. Text: Page, *Introduction to Theoretical Physics. Five hours a week, fall quarter.* (1937 and alternate years). Professor Plyler.

110. PHYSICAL MECHANICS. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 54, 56.

Lectures, problems. Text: Lindsay, *Physical Mechanics.* Required of all candidates for advanced degrees in physics. *Five hours a week, fall quarter.* Professor Stuhlman or Professor Plyler.

120. HEAT AND INTRODUCTORY THERMODYNAMICS. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

More advanced and detailed than Physics 56, with emphasis on theory rather than experiment. Conduction of heat, kinetic theory, and thermodynamics. Text: Saha and Srivastava, *Heat. Five hours a week, winter quarter.* (1937 and alternate years). Professor Plyler.

140. ELECTRICITY AND MAGNETISM. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Electrostatics, electrodynamics, and magnetic phenomena. Text: Page and Adams, *Principles of Electricity. Five hours a week, winter quarter.* (1938 and alternate years). Professor Plyler.

141 ADVANCED ELECTRICITY AND MAGNETISM. (5). Prerequisite, Physics 140.

Continuation of Physics 140, with laboratory work, including high frequency measurements. Text: Page and Adams, *Principles of Electricity. Four lecture and two laboratory hours a week, spring quarter.* (1938 and alternate years. *Laboratory fee, $3.00.* Professor Plyler.

150. PHYSICAL OPTICS. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Diffraction, interference, polarization, resonance, radiation, scattering, emission, and absorption; the electromagnetic theory of light. Text: Wood, *Physical Optics. Five hours a week, spring quarter.* (1937 and alternate years). Professor Wheeler.

153. OPTICS. (5). Prerequisite, Physics 21-22-23 or 24-25.

Identical with Physics 53, except that additional laboratory work and problems are required of graduate students enrolling in 153. *Four lecture and four laboratory hours a week, fall quarter.* (1937 and alternate years.) *Laboratory fee, $3.00.* Professor Stuhlman.

160. ELECTRONICS AND ATOMIC PHYSICS. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Ionization phenomena; the electron and other elementary particles, photoelectric effect, thermionics, isotopes, elementary quantum theory, absorption

and emission of radiant energy, Zeeman and Stark effects, X-rays, wave properties of matter, radioactivity. Text: Harnwell and Livingood, *Experimental Atomic Physics. Five hours a week, winter quarter.* Professor Stuhlman.

161. RADIOACTIVITY. (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Radioactive elements and their radiations; neutrons, positrons, artificial disintegration, artificially radioactive elements; their use as chemical indicators; cosmic rays. Text: Rutherford, Chadwick, and Ellis, *Radioactive Substances and their Radiations. Three lecture and two laboratory hours a week, fall quarter.* (1936 and alternate years). Professor Wheeler.

170. X-RAYS. (5). Prerequisite, Calculus and Physics 53, 55, and 160, except by permission.

Optical properties of X-rays, absorption and scattering, X-ray spectra, energy levels, and transition probabilities; crystal structure determination with X-rays and electron waves; industrial applications. Text: Compton and Allison, *X-Rays in Theory and Experiment. Five hours a week, spring quarter.* (1938 and alternate years). Professor Ruark.

## *DEPARTMENT OF POLITICAL SCIENCE

Professors: W. W. PIERSON, H. M. WAGSTAFF, E. J. WOODHOUSE.
Associate Professors: K. C. FRAZER, W. S. JENKINS, C. B. ROBSON.
Acting Assistant Professor: J. W. FESLER.

### Courses for Undergraduates

31-32-33. INTRODUCTION TO POLITICAL LIFE—LOCAL, NATIONAL, AND INTERNATIONAL. (9).

A survey of the institution and problems of political life in the local area, the state, the nation, and the international community. The emphasis is on the actual and vital relations between the citizen and government with a view to stimulating an intelligent and thoughtful interest in the politics of the present. Each member of the department lectures in the field of his specialization and there is directed reading and written work on the basis of a syllabus prepared coöperatively. The student will not be required to buy a text-book but will pay a book fee of one dollar ($1.00) a quarter. Sophomore elective. *Three hours a week through the year.* Professors Robson, (chairman), Pierson, Wagstaff, Woodhouse, Frazer, Jenkins, Fesler; Mr. Howerton.

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* The requirements for A.B. with a major in Political Science are as follows: Political Science 31-32-33 or the equivalent in the General College, and in addition six courses distributed according to the following plan. One course from each of the following groups: 1) United States Government (including Political Science 51, 101, 155); 2) foreign governments (including 52, 121, 154); 3) political theory and jurisprudence (including 151, 153, 157, 158); 4) international politics (including 141, 142, 143). Two courses from one of the following groups for specialization: local state government, administration and public law, theory and jurisprudence, international law and relations, and foreign governments. In addition to these courses in the Department, the student undertaking a major will be required to take five to seven courses in other departments of the Division and five to seven courses in departments outside the Division. In case the student has not taken Political Science 31-32-33, Political Science 51-52 will be required; this will be credited in the major programme only as a substitute for 31-32-33.

51. THE GOVERNMENT OF THE UNITED STATES. (5).

An intensive study of the constitutional basis, the historical development, the organization, operation, and problems of the federal government of the United States. Textbooks, lectures, readings, and reports. *Five hours a week, each quarter.* Professors Jenkins, Frazer, Fesler.

52. THE GOVERNMENTS OF EUROPE. (5).

A study of the principal governments of Europe including Great Britain, France, Germany, Italy, and Russia. Special attention is given to comparisons and contrasts among these governments and with government in the United States. Textbooks, lectures, readings, and reports. *Five hours a week, winter or spring quarter.* Professor Robson.

### Courses for Graduates and Advanced Undergraduates

101. PUBLIC ADMINISTRATION. (5).

General problems and principles of public administration. Structural problems: the separation of powers, organization of administrative agencies, areal problems of administration. Personnel problems: recruitment, proportion, removal, classification, civil servant unions. Financial problems: budgeting, auditing, purchasing, taxing, borrowing. Administrative law: growth and significance of administrative legislation and adjudication. *Five hours a week, fall quarter.* Professor Fesler.

121. THE GOVERNMENT OF ENGLAND. (5).

The objective of this course is a knowledge of the development and operation of the English government. Local, national, and imperial aspects of England's governmental practice will receive attention. Resemblances and contrasts between her government and that of our own country will be pointed out for the practical lessons which the parallel supplies. Lectures and readings. *Five hours a week, fall quarter.* Professor Wagstaff.

122. GOVERNMENT AND ADMINISTRATION OF EUROPEAN CITIES. (5).

A general consideration of principles and methods of social control in the municipalities of Great Britain, France, and Germany, with some attention to those of other nations. Comparisons with American conditions. *Five hours a week, spring quarter.* Professor Woodhouse.

131. AMERICAN STATE GOVERNMENT. (5).

A study in the principles, organization, and administrative methods of state government. In connection with the course will be a special study of the government of North Carolina. Lectures, readings, and reports. *Five hours a week, fall or spring quarter.* Professor Jenkins.

132. AMERICAN MUNICIPAL GOVERNMENT. (5).

An historical survey of the development of governmental structure, theory, and functions in American municipalities, and careful analysis of existing municipal conditions, with special attention to city and town government in North Carolina. Each student will make an intensive study of his own or some other city or town. *Five hours a week, fall quarter.* Professor Woodhouse.

133. AMERICAN MUNICIPAL ADMINISTRATION. (5).

Special study of the principles and problems of administration in American municipal corporations of such functions as police, public education, charities and correction, local improvements, public health, finances, with

emphasis on city and town administration in North Carolina. Each student will select and study exhaustively a municipal problem in one municipality. *Five hours a week, fall quarter.* Professor Woodhouse.

134. COUNTY GOVERNMENT AND ADMINISTRATION. (Same as Rural Economics 134). (5).

A study of the forms of organization, the functions, and the operation of county government in the United States and especially in North Carolina in their historical development, but with special emphasis on present conditions and tendencies and on possible improvements. Each student will be required to study, as extensively and intensively as possible, the government and administration of one county, preferably his home county, and to put his results into essay form. Textbooks, lectures, and readings. *Five hours a week, winter quarter.* Professor Woodhouse.

141. INTRODUCTION TO INTERNATIONAL LAW. (5).

A general survey of the history, the sources, and the content of international law. *Five hours a week, fall quarter.* Professor Frazer.

142. INTERNATIONAL ORGANIZATION AND INSTITUTIONS.(5)

A study of all important international governmental institutions. The administrative unions, the League of Nations, and the international courts are examined and discussed. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Frazer.

144. THE ORGANIZATION AND CONDUCT OF THE FOREIGN RELATIONS OF THE UNITED STATES.

The machinery of foreign relations, organs for conduct, and the foreign service are analyzed and discussed. Foreign policies are discussed from the standpoint of their formation and content. *Five hours a week, spring quarter.* Professor Frazer.

151. THE ELEMENTS OF POLITICAL SCIENCE. (5).

A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, textbooks, and readings. *Five hours a week, fall quarter.* Professor Pierson.

153. POLITICAL THOUGHT OF THE EIGHTEENTH CENTURY. (5).

An analysis of the development of liberal and democratic political thought, with emphasis on the ideas of the American and French Revolutions. Lectures and reports. *Five hours a week, winter quarter.* Professor Robson.

154. DEVELOPMENT OF THE ENGLISH CONSTITUTION. (5).

A general course surveying the origin and development of the constitutional machinery of the British monarchy. Emphasis will be laid on the successive constitutional landmarks from the Norman Conquest to the Parliament Act of 1911. Lectures, textbooks, and readings. *Five hours a week, winter quarter.* Professor Wagstaff.

155. THE CONSTITUTION OF THE UNITED STATES. (5).

An elementary course in constitutional law covering by means of lectures, textbooks, and cases the fundamental principles of constitutional interpretation and practice in the United States. *Five hours a week, winter quarter.* Professor Jenkins.

156. CONTEMPORARY PROBLEMS IN GOVERNMENT. (5).
A study of the present organizations and actual operations of our national and state governments through the day to day acts of their departments as reported in the United States Daily, other newspapers, periodicals, and available official reports. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Woodhouse.

157. HISTORICAL JURISPRUDENCE. (5).
Ancient and medieval law; brief study of Egyptian, Babylonian, Greek, and Hebrew law, chiefly in their methods and agencies of formulation and administration; detailed study of the historical evolution of Roman law, of its fate during the Middle Ages, and of its spread and influence in the Modern World; some consideration of the parts played in medieval Europe by the Germanic, Slavonian, and Celtic legal systems. *Five hours a week, winter quarter.* Professor Woodhouse.

158. HISTORICAL JURISPRUDENCE. (5).
Anglo-American law; historical study of the development of English law, legislation, courts, and court procedure from the Anglo-Saxon Conquest of England to the settlements in North America by the English; and of the evolution of the legal system in these English colonies and in the United States to the present day. *Five hours a week, spring quarter.* Professor Woodhouse.

159. THE BRITISH EMPIRE. (5).
A study of the structure of the British Empire, its evolution into a British commonwealth of Nations, and an examination of the bonds which hold it together. *Five hours a week, spring quarter.* Professor Wagstaff.

175. POLITICAL PARTIES AND PUBLIC OPINION. (5).
History, organization, and policies of major and minor parties, nominating systems; ballot and election laws; party finance; political machines; influence of party upon executive and legislative branches of government. Special emphasis upon the relation of party to administration and to current American politics. Lectures, readings, and reports. *Five hours a week, fall quarter.* Professor Woodhouse.

181. GOVERNMENTAL REORGANIZATION IN THE UNITED STATES SINCE 1929. (5).
The governmental problems faced by the New Deal, and the solutions attempted through the NRA, AAA, RFC, TVA, and similar agencies. Particular attention will be devoted to administrative aspects of the New Deal: conflicts of policy among the new agencies, growth of governmental corporations, recruiting of personnel, budgetery problems, and the increased delegation of legislative power to administrative agencies. *Five hours a week, spring quarter.* Professor Fesler.

## *DEPARTMENT OF PSYCHOLOGY

Professors: J. F. DASHIELL, H. W. CRANE, ENGLISH BAGBY.
Instructors: S. W. WELCH, JR., D. D. WICKENS, D. K. SPELT.

* For A.B. with a major in Psychology as a Natural Science two programs are offered. In each the student is required to take six courses chosen from the allied fields of mathematics, physics, zoölogy, and the School of Medicine. Required courses in the Major Department are in the first program (for students with more general interests): 190 and 150 or 152 or 153, with any four undergraduate courses exclusive of 21-22-23; in the second group (for students with applied interests): 146, 147, and 151 or 152 or 153, with three additional courses selected from 126, 135, 136, 138, 140, and 145.

For A.B. with major in Psychology as a Social Science: six courses within the Department of Psychology, including 190 and either 151, 152, or 153; 6 courses in other social sciences, preferably economics, education, philosophy, and sociology; 6 elective from outside the Division of the Social Sciences, preferably in mathematics, physics, and zoölogy.

## Courses for Undergraduates

21-22-23. GENERAL PSYCHOLOGY. (12).

Psychology is presented as an experimental and clinical natural science. *Three lecture and demonstration hours and two laboratory hours a week, throughout the year. Laboratory fee, $2.00 a quarter.* Professor Bagby; Messrs. Wickens, Welch, Spelt; Assistant.

## Courses for Graduates and Advanced Undergraduates

NOTE: General Psychology is prerequisite for all other courses in this Department.

125. ANIMAL BEHAVIOR. (5).

A systematic survey of behavior in the various phyla, followed by a critical survey of experimental problems concerning vertebrates including man. The course is of general psychological character, emphasizing central concepts of psychology. Typical experiments. *Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $2.00.* (1938 and alternate years). Professor Dashiell; Mr. Spelt.

126. CHILD DEVELOPMENT. (5).

A survey of experimental and clinical contributions to the contemporary field of child development, including foetal, neonate, preschool, school, and adolescent ages. Experimental observations. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $1.50.* Professor Dashiell; Mr. Wickens.

135. ECONOMIC PSYCHOLOGY: INDUSTRIAL AND VOCATIONAL. (5).

A presentation of the principles of vocational guidance and an examination of the whole range of factors which affect the efficiency of workers. Lectures and readings. *Five hours a week, spring quarter.* Professor Bagby.

136. ECONOMIC PSYCHOLOGY: ADVERTISING. (5).

A presentation of those aspects of psychology which will aid the advertiser both in his detailed problems and in developing a general technique. (1937 and alternate years). *Four lecture and two laboratory hours a week, winter quarter. Laboratory fee $2.00.* Professor Crane.

138. LEGAL PSYCHOLOGY. (5).

Some of the major problems of a psychological nature with which the law is concerned. The method will be that of a natural science approach leading ultimately to implications of practical legal character. Readings, lectures, and experiments. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Dashiel.

140. THE PSYCHOLOGY OF PERSONALITY. (5).

This course is concerned primarily with the factors which determine the form and quality of the human personality. *Five hours a week, fall quarter.* Professor Bagby.

145. ABNORMAL PSYCHOLOGY: FEEBLE-MINDEDNESS. (5).

Presentation of the psycho-neural aspects of feeble-mindedness together with its importance in relation to the problems of education, dependency, and delinquency. Discussion and demonstration of various clinical methods. *Five hours a week, winter quarter.* (1938 and alternate years). *Laboratory fee, $1.00.* Professor Crane.

146. ABNORMAL PSYCHOLOGY: PSYCHONEUROSES AND PSYCHOSES. (5).

Attention is given to abnormalities and to their occurrence in various specific psychoses. *Five hours a week, spring quarter. Laboratory fee, $1.00* Professor Crane.

147. ABNORMAL PSYCHOLOGY: METHODS OF MENTAL EXAMINATION. (5).

A presentation of the various psychological methods used in the clinical study of individuals, including specialized defects as well as the level of intelligence. Lectures, experiments, readings. *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Crane; Assistants.

151, 152, 153. EXPERIMENTAL PROBLEMS. (5 each).

To the student who finds himself especially interested in some particular problem of psychology, opportunity is here offered for investigative study. May be elected any quarter. *One lecture and eight laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Dashiell, Crane, Bagby.

190. CONTEMPORARY PSYCHOLOGICAL TENDENCIES. (5).

An historical survey, followed by readings in Titchener, James, Watson, Freud, Köhler, and others. Open only to graduate students and to seniors who have a major in Psychology; required of all candidates for higher degrees. *Five hours a week, fall quarter.* Professor Dashiell.

## DEPARTMENT OF ROMANCE LANGUAGES

Professors: W. M. DEY, S. E. LEAVITT, U. T. HOLMES, N. B. ADAMS, H. R. HUSE, J. C. LYONS (Secretary).

Associate Professors: H. H. STAAB, R. S. BOGGS, S. A. STOUDEMIRE, W. L. WILEY.

Instructors: J. L. SMITH, T. E. WRIGHT, R. W. LINKER, J. E. CARROLL, W. M. MCLEOD, F. C. HAYES, W. D. CREECH, W. R. WEAVER, B. R. THURMAN, A. G. ENGSTROM, W. A. MCKNIGHT, L. L. BARRETT.

## *FRENCH

### Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE FRENCH. (9).

Professors Lyons, Wiley; Messrs. Smith, Wright, Linker, Carroll, McLeod, Creech, Thurman, Engstrom, Little.

NOTE: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

Attention is called to French 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

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* An undergraduate major in French consists of the following eight courses: French 51; 52 or 126; 109 or 115 or 132; 145; 161 or 181; 131 or 171 or 172; 191 or 192; one more course approved by the Department.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

11-12-13. INTERMEDIATE FRENCH. (9).

Professors Huse, Staab, Wiley; Messrs. Smith, Wright, Linker, Carroll, McLeod, Creech, Thurman.

14-15-16. SPECIAL COURSE IN ELEMENTARY FRENCH. (9). Professor Wiley.

21-22-23. ADVANCED FRENCH. (9). Prerequisite, French 1-2-3, 11-12-13, or the equivalent.

Professors Dey, Huse, Lyons, Wiley; Messrs. Smith, Linker, Carroll, McLeod.

51. FRENCH CONVERSATON AND COMPOSITION. (5). Prerequisite, French 23.

The object of this course is to provide students with an opportunity to acquire practice in spoken French. Discussion in French on subjects of general interest. Composition and outside reading. *Five hours a week, fall or spring quarter.* Professor Lyons.

52. FRENCH CIVILIZATION. (5). Prerequisite, French 51.

A rapid survey of the history of France, with emphasis on political and economic developments necessary to an understanding of the present situation. History and discussion of French institutions, with some reference to the history of French art and French music. All lectures, discussions, and reports on collateral reading are in French. *Five hours a week, winter quarter.* Professor Lyons.

55. REVIEW OF GRAMMAR AND SYNTAX. (5). Prerequisite, French 23.

This course is primarily for teachers, and is open to juniors and seniors who intend to teach French. It consists of an intensive review study of the elements and fundamentals of French grammar and syntax. Before registering for this course, students must secure the permission of the instructor. *Five hours a week, winter quarter.* Mr. Smith.

### Courses for Graduates and Advanced Undergraduates

109. THE FRENCH NOVEL. (5). Prerequisite, French 23.

A study of the development of the novel in France. Lectures, readings, reports. *Five hours a week, winter quarter.* (1938 and alternate years). Professor Dey.

115. FRENCH LYRIC POETRY. (5). Prerequisite, French 23.

A study of French lyric poetry, beginning with Villon. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Huse.

126. HISTORY OF THE FRENCH LANGUAGE. (5). Prerequisite, French 23.

A general survey from the origins to the present day, with especial emphasis upon the period, 1500-1900: the influence of the Erudits, Précieuses, Philosophes, and Romanticists; spelling reforms. *Five hours a week, winter quarter.* Professor Holmes.

131. THE FRENCH DRAMA PRIOR TO 1700. (5). Prerequisite, French 23.

A survey of the religious and comic theatres of the Middle Ages; the theatre of the Renaissance and its relation to the classic theatres of Greece and Rome; the neo-classic theatre of the 17th century. *Five hours a week, winter quarter.* Professor Wiley.

132. THE FRENCH DRAMA SINCE 1700. (5). Prerequisite, French 23.

A survey of Modern French Drama with special attention to the theatrical principles and ideas of the different dramatic schools of the last two centuries. *Five hours a week, spring quarter.* Professor Wiley.

145. FRENCH PHONETICS. (5). Prerequisite, French 23.

A detailed study of the French vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in French for the master's degree, and it should be elected by anyone who intends to teach French. *Five hours a week, fall quarter.* Professor Dey.

161. THE SIXTEENTH CENTURY. (5). Prerequisite, French 23.

A general treatment of the chief movements in French literature of the 16th century, with some reference to the Italian Renaissance and its influence on France. Specimen readings from the more important poets and prose writers: Marot, Rabelais, the Pléiade, Montaigne, etc. *Five hours a week, spring quarter.* Professor Lyons.

171. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. (5). Prerequisite, French 23.

A study of the period of Henry IV and Louis XIII. *Five hours a week, fall quarter.* Professor Lyons.

172. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. (5). Prerequisite, French 23.

This course deals with the literature of the reign of Louis XIV. *Five hours a week, winter quarter.* Professor Lyons.

181. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. (5). Prerequisite, French 23.

Voltaire, Montesquieu, Rousseau, les Encyclopédistes. A study of the literary movement of the century and of the origins of romanticism. *Five hours a week, fall quarter.* Professor Huse.

191. FRENCH ROMANTICISM. (5). Prerequisite, French 23.

French literature from 1800 to 1850, with special stress on the works of the romantic poets, Lamartine, Hugo, Vigny, and Musset. Lectures, readings, reports. *Five hours a week, fall quarter.* Professor Dey.

192. FRENCH LITERATURE SINCE 1850. (5). Prerequisite, French 23.

A study of the later literary movements of the 19th century, with some emphasis on the contemporary period. Lectures, readings, reports. *Five hours a week, winter quarter.* Professor Dey.

CELTIC 105. MIDDLE IRISH. (5).

Grammar and reading of texts. Dottin, *Manuel de l'Irlandais Moyen, Táin Bó Cúailnge* (Supplement to *Eriu*). *Five hours a week, winter quarter.* Professor Holmes.

## *SPANISH

### Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE SPANISH. (9).

Professor Stoudemire; Messrs. Hayes, Weaver, McKnight, J. A. Barrett, L. L. Barrett.

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* An undergraduate major in Spanish consists of the following eight courses: Spanish 109, 110,111, 131, 132, 134 or 135, 145, and one more course approved by the Department.

NOTE: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

Attention is called to Spanish 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE SPANISH. (9).
Professors Leavitt, Adams, Stoudemire; Messrs. Hayes, Weaver, McKnight.

14-15-16. SPECIAL COURSE IN ELEMENTARY SPANISH. (9).
Professor Stoudemire.

21-22-23. ADVANCED SPANISH. (9). Prerequisite, Spanish 1-2-3, 11-12-13, or the equivalent.
Professors Adams, Boggs, Stoudemire.

### Courses for Graduates and Advanced Undergraduates

109. EARLY SPANISH PROSE FICTION. (5) Prerequisite, Spanish 23.
A study of the origins and developments of the novel in Spain up to the time of Cervantes. (1936 and alternate years). *Five hours a week, fall quarter.* Professor Adams.

110. THE SPANISH NOVEL—1605-1898. (5). Prerequisite, Spanish 23.
A survey of the novel from Cervantes through the nineteenth century. (1937 and alternate years). *Five hours a week, winter quarter.* Professor Adams.

111. MODERN SPANISH NOVELISTS. (5). Prerequisite, Spanish 23.
A study of the "Generation of '98," with consideration of present day tendencies. (1937 and alternate years). *Five hours a week, spring quarter.* Professor Adams.

115. EARLY LYRIC POETRY. (5). Prerequisite, Spanish 23.
A survey of lyric poetry in the Spanish peninsula from the origins through thc Siglo de Oro. (1937 and alternate years). *Five hours a week, fall quarter.* Professor Adams.

116. MODERN LYRIC POETRY. (5). Prerequisite, Spanish 23.
Brief treatment of the poetical schools of Seville and Salamanca in the eighteenth century and study of Spanish lyric poetry through the nineteenth century to the present day. (1936 and alternate years). *Five hours a week, winter quarter.* Professor Adams.

131. LOPE DE VEGA AND HIS CONTEMPORARIES. (5). Prerequisite, Spanish 23.
Reading of representative plays of Lope de Vega, Tirso de Molina, Guillén de Castro, Ruiz de Alarcón, etc. Lectures and reports. (1937 and alternate years. *Five hours a week, fall quarter.* Professor Leavitt.

132. CALDERON AND HIS CONTEMPORARIES. (5). Prerequisite, Spanish 23.
Reading of representative plays of Calderón de la Barca, Moreto, Rojas, etc. Lectures and reports. (1938 and alternate years). *Five hours a week, winter quarter.* Professor Leavitt.

134. SPANISH DRAMA OF THE NINETEENTH CENTURY. (5). Prerequisite, Spanish 23.
Reading of representative plays of this period. Lectures, oral and written reports. (1936 and alternate years). *Five hours a week, fall quarter.* Professor Leavitt.

135. MODERN SPANISH DRAMA. (5). Prerequisite, Spanish 23.

Reading of plays of Dicenta, Benavente, Linares Rivas, the Alvarez Quintero brothers, Marquina, Martínez Sierra, etc. Lectures, oral and written reports. (1937 and alternate years). *Five hours a wek, winter quarter.* Professor Leavitt.

145. SPANISH PHONETICS. (5). Prerequisite, Spanish 23.

A detailed study of the Spanish vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in Spanish for the master's degree, and it should be elected by anyone who intends to teach Spanish. *Five hours a week, spring quarter.* Professor Boggs.

## ITALIAN

### Courses for Undergraduates

51. ELEMENTARY COURSE. (5). Prerequisite, French 11-12-13 or Spanish 11-12-13.

Grammar, pronunciation, oral and written exercises. Reading of modern Italian texts. *Five hours a week, fall quarter.* Professor Huse.

52. MODERN ITALIAN LITERATURE. (5). Prerequisite, Italian 51.

Continuation of Course 51 with reading from modern Italian poets, dramatists, and novelists. *Five hours a week, winter quarter.* Professor Huse.

### Courses for Graduates and Advanced Undergraduates

131. DANTE. (5). Prerequisite, Italian 51 and 52.

The *Vita Nuova* and the *Inferno,* with some references to origins of Italian literature and to the poets of the *dolce stil nuovo. Five hours a week, spring quarter.* (1936 and alternate years). Professor Huse.

132. DANTE. (5). Prerequisite, Italian 131.

*The Purgatorio* and the *Paradiso. Five hours a week, spring quarter.* (1937 and alternate years). Professor Huse.

156. DANTE IN ENGLISH TRANSLATION. (5).

The *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, fall quarter.* Professor Huse.

161. ITALIAN LITERATURE OF THE RENAISSANCE. (5). Prerequisite, Italian 51 and 52.

Readings from the principal authors, with special emphasis on Ariosto, Machiavelli, Castiglione, and the lyric poets. Collateral reading on the history of Italian culture during the Renaissance. *Five hours a week, winter quarter.* Professor Huse.

## *DEPARTMENT OF RURAL SOCIAL ECONOMICS

Professor: S. H. HOBBS, JR. Associate Professor: P. W. WAGER.

### Courses for Undergraduates

51-52. RURAL ECONOMICS. (10). Prerequisite or corequisite, Economics 21-22-23 or the equivalent.

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* Students interested in making Rural Social Economics their Department of major interest should consult the Department in advance of registration for their first year in the College of Arts and Sciences.

A general course in the principles and problems of rural economy, with special attention given to the economics of agriculture in North Carolina and the South. References: Gray's *Agricultural Economics;* Taylor's *Outlines of Agricultural Economics;* Yoder's *Introduction to Agricultural Economics. Five hours a week, fall and winter quarters.* Professor Hobbs.

53. HISTORY OF AGRICULTURE. (5).

This course traces the development of agriculture from its earliest beginnings to the present: earliest beginnings; Greece and Rome; later agriculture in Europe; American agriculture. References: Gras, *A History of Agriculture;* Schmidt and Ross, *Readings in the Economic History of American Agriculture;* special readings. *Five hours a week, spring quarter.* Professor Hobbs.

61. AGRICULTURAL COÖPERATION. (5).

Lecture and research. History of agricultural coöperation, principles of coöperation, coöperative organization, rural credits, and coöperative marketing. *Five hours a week, winter quarter.* Professor Hobbs.

71. RURAL SOCIOLOGY. (5).

Rural Sociology. Text: Gillette's *Rural Sociology.* Collateral readings: Galpin's *Rural Life;* Butterfield's *Chapters in Rural Progress;* Sorokin and Zimmerman's *Principles of Rural-Urban Sociology. Five hours a week, fall quarter.* Professor Wager.

72. RURAL SOCIOLOGY. (5).

Country Life Problems. Text: Taylor's *Rural Sociology.* Collateral readings: Boyle's *Rural Problems in the United States,* Galpin's *Rural Social Problems,* Butterfield's *The Country Church and the Rural Problem. Five hours a week, winter quarter.* Professor Wager.

73. RURAL SOCIOLOGY. (5).

The rural community. Text: Sims' *Elements of Rural Sociology.* Collateral readings: Hawthorne's *The Sociology of Rural Life,* Hayes' *Rural Community Organization,* Miller's *Town and Country,* Wilson's *Evolution of the Country Community,* Sims' *The Rural Community,* Steiner's *The American Community in Action. Five hours a week, spring quarter.* Professor Wager.

91, 92, 93. LABORATORY COURSES IN RURAL ECONOMICS AND SOCIOLOGY. (5 each). Corequisite, 51-52 or 71, 72, and 73.

Home-state studies, home-county studies, research projects and surveys. Hours arranged to suit the convenience of the student. *Nine hours laboratory and one hour seminar a week, fall, winter, and spring quarters.* Professors Hobbs, Wager.

95, 96, 97. LABORATORY COURSES ON THE HOME COUNTY. (5 each.)

Studies in the economic and social conditions of the home county with a view to the publication of a county survey or a county geography supplement. Arranged especially to meet the needs of county organizations at the University. Hours arranged to suit the convenience of the student. *Nine hours laboratory and one hour seminar a week, fall, winter, and spring quarters.* Professor Wager.

### Courses for Graduates and Advanced Undergraduates

101. NORTH CAROLINA: ECONOMIC AND SOCIAL. (5).

This course is designed to familiarize the student with North Carolina: population, agriculture, resources, social life, economic development, industry, wealth, taxation, education, public welfare. *Five hours a week, every quarter.* Professor Hobbs.

110. LAND ECONOMICS. (5). Prerequisite or corequisite, General Economics, or Rural Economics 51-52.

This is an introductory course to the broad field of land economics, with special attention given to farm and forest land resources, utilization, and conservation in the United States. A few subjects covered are: The problem of land economics; characteristics and classification of land; present and future utilization of land; property in land; land tenure; land taxation; social ends of land utilization; policies of land settlement and development; rural resettlement; forest conservation. *Five hours a week, winter quarter.* Professor Hobbs.

134. COUNTY GOVERNMENT AND ADMINISTRATION. (5).

A study of the forms of organization, the functions, and the operation of county government in the United States and especially in North Carolina in their historical development, but with special emphasis on present conditions and tendencies and on possible improvements. Each student will be required to study as intensively as possible the government and administration of one county, preferably his home county, and to put his results into essay form. Textbooks, lectures, and readings. *Five hours a week, winter quarter.* Professor Wager.

## *DEPARTMENT OF SOCIOLOGY

Professors: **H. W. ODUM, H. D. MEYER.
Research Professors: E. R. GROVES, T. J. WOOFTER, JR.
Associate Professors: W. B. SANDERS, L. M. BROOKS.
Research Associates in Institute for Research in Social Science: G. B. JOHNSON, KATHARINE JOCHER, R. B. VANCE.

### Courses for Undergraduates

21-22-23. COMPREHENSIVE INTRODUCTORY COURSE IN SOCIOLOGY. (9).

Professors Meyer, Vance, Brooks; Teaching Fellow.

(NOTE: Students with one elective course in sociology may take either Sociology 51 or 52. For major in the Department Sociology 41 and 42 are prerequisite if the student has not completed Sociology 21-22-23. For Sociology 62 no prerequisite is required except senior standing or its equivalent.)

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* For A.B. with major in Sociology, Sociology 21-22-23 should have been completed in the General College. Should the student not have had sociology in the General College, then Sociology 51 and 52 are required. Sociology 152 is required in addition to the above courses. For students desiring to enter social work or public administration, Public Administration 160 may be substituted for Sociology 52. Where the student desires to enter the teaching field, two courses in education are required in addition to the regular sociology requirements, these courses to be determined after conference with the head of the department of education. All other courses in the major are elective. The number of courses required for a major in Sociology is six provided Sociology 21-22-23 have been completed, or eight if these preliminary courses have not been completed.

** Absent on leave, winter and spring quarters, 1936.

51. INTRODUCTION TO SOCIOLOGY. (5).

Emphasis on social origins as found in primitive society; the rise of contemporary society; the forces shaping society studied through geographical, biological, psychological, and cultural approaches; social organization and control; the elements of social theory. Sociology 51 may not be counted for credit by a student who has credit for Sociology 21-22-23 or equivalent. *Five hours a week, every quarter.* Professor Brooks.

52. SOCIAL PROBLEMS. (5).

A general course giving primary emphasis to positive features and secondary consideration to the pathological aspects of society. The student is introduced to various social problems and institutions such as race, immigration, the family, and the community, which can be pursued more intensively in other specialized courses in this department. Sociology 52 may not be counted for credit by a student who has credit for Sociology 21-22-23 or equivalent. Five *hours a week, every quarter.* Professor Meyer.

62. MARRIAGGE. (3). Open to seniors.

A discussion of the practical problems of marriage, parenthood, and family adjustment. *Five hours a week, spring quarter.* Professor Groves.

### Courses for Graduates and Advanced Undergraduates

151. SOCIAL ANTHROPOLOGY. (5).

A general course in social anthropology, but with some attention to physical anthropology and archaeology. The nature of culture; culture processes; the modern cultural environment; and social change. *Five hours a week, spring quarter.* Professor Johnson.

152. SOCIAL THEORY. (5).

A survey of the range of contemporary social theory with preliminary consideration of its historical backgrounds. A study is made of contributions the theories of human ecology, regionalism, population, social differentiation, the social personality, mobility, human nature and culture, collective behavior, religion, art and the *mores*, the social processes, conflict, and social control. Leading theories are summarized, compared, and criticized. Required in all majors and of all candidates for graduate degrees. *Five hours a week, every quarter.* Professor Vance.

154. CONTEMPORARY SOCIETY. (5).

A study of cultural evolution in terms of physiographic and societal forces. Part I presents the psychology and functioning of early human society and the continuing development of modern society. Part II studies the backgrounds of contemporary American society presented in terms of major forces that contribute to the making of civilization—natural wealth, technological wealth, artificial wealth, human wealth, institutional wealth, wealth of social science, and social technology, regional variations and forces. Analysis of basic factors leading up to the crisis of 1930. Analysis of recent social trends in fundamental aspects of American life. *Five hours a week, fall quarter.* Professor Odum.

155. SOCIAL PROGRESS AND SOCIAL VALUES. (5). Open to juniors and seniors.

This course reviews the theories and philosophy of social progress; studies social trends and social change; attempts to set up objective measuring scales of change; attempts to appraise objectively aspects of material progress and of social progress and social regress. After brief consideration of social

values it attempts to set up certain objectives and goals of social achievement as a framework upon which to measure and project human progress. *Five hours a week, winter quarter.* Professor Odum.

160. INTRODUCTION TO SOCIAL WORK. (5).

Essentially a professional course in social problems with the emphasis laid upon methods of treatment by public and private social agencies. After a brief discussion of the nature, purpose, and scope of social work the course will deal chiefly with the technical application of social work to the pathological problems, such as poverty and destitution, physical and mental deficiency, disease, crime, and delinquency. Methods of education and training for social work will also be taken up in considerable detail. *Five hours a week, fall quarter.* Professor Sanders.

161. THE FAMILY. (5).

The history, purpose, and problems of the family with especial attention to social conditions influencing family life and to efforts for family conservation. *Five hours a week, fall quarter.* Professor Groves.

168. THE COMMUNITY. (5).

1. A descriptive, analytic, and comparative study of urban structure and growth, with primary emphasis upon social planning in connection with such problems and programs as housing, delinquency areas, slum clearance, and recreation. 2. The community and social work; community organization, its origins, development, problems, and prospects. Large use will be made of recent literature in this field. *Five hours a week, winter quarter.* Professor Brooks.

171. EDUCATIONAL SOCIOLOGY. (5).

Education is a process of social control and achievement. The social resources of the school and other educational resources. Social problems of the teacher. *Five hours a week, fall quarter.* Professor Meyer

173. PLAY AND RECREATION. (5).

The theories of play, play activities, attitudes, history of the play movement, play leadership, programs, values, sex and age differences, classification of movements, application to community life. *Five hours a week, winter quarter.* Professor Meyer.

175. EXTRA-CURRICULAR ACTIVITIES. (3).

Clubs, student participation in school government, physical education, publicity in school publications, commencement, many miscellaneous topics—the assembly, festival days, suggestions to leaders, home room activities, programs, dramatics, point systems, contributions from national agencies interested in extra-curricular activities, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Three hours a week, spring quarter.* Professor Meyer.

185. THE NEGRO. (5).

A study of the American Negro, wit hparticular reference to the South; the historical and cultural background of the Negro in Africa and in America; development since emancipation; bi-racial system; and problems of race relations. *Five hours a week, fall quarter.* Professor Johnson.

186. POPULATION. (5).

A study of problems of quality and quantity of population including theories of population increase, and problems of race, immigration, and eugenics. *Five hours a week, spring quarter.* Professor Woofter.

192. CRIME. (5).

Nature and causes of crime; evolution of modern methods of criminal procedure; administration of penal and reformatory institutions; programs for the social treatment of the criminal; the problems of juvenile delinquency. The class work will be supplemented by field trips to criminal courts and penal institutions. *Five hours a week, spring quarter.* Professor Brooks.

193. SOCIAL PATHOLOGY. (5).

The content and method of this course provide for careful coördination with courses on crime, juvenile delinquency, and general social problems. Its emphasis therefore is on poverty and relief. Minor but intensive study will be given to such social ills as mental defect and disease, alcoholism, prostitution, and vagrancy. Emphasis is given to methods of treatment by private and public institutions and agencies. Class work is supplemented by field trips to county and state institutions. *Five hours a week, fall quarter.* Professor Meyer.

198. JUVENILE DELINQUENCY. (5).

This course deals with the diagnosis and treatment of juvenile delinquency from the social worker's viewpoint. Under diagnosis will be taken up the methodology of the social scientists in this field, and the evaluation of the different causative factors of juvenile delinquency. Under treatment will be covered the work of the juvenile court, probation, parole, and institutional care. *Five hours a week, fall quarter.* Professor Sanders.

## *DEPARTMENT OF ZOÖLOGY

Professors: R. E. COKER, H. V. WILSON.
Associate Professor: C. D. BEERS.
Assistant Professor: D. P. COSTELLO.

### Courses for Undergraduates

1-2-3. (BIOLOGY 1-2-3). ELEMENTS OF BIOLOGY. (12). Freshman elective.

Professors Couch, Costello; Mr. Adams; Assistants.

41. FUNDAMENTALS OF ANIMAL BIOLOGY. (6).

Principles of biology; elements of anatomy, physiology, and classification of vertebrate animals. Dissection of frog and dogfish and study of tissues, as necessary for an understanding of the organization and functions of vertebrate animals and especially of man. Sophomore, junior, and senior elective. *Four lecture and four laboratory hours a week, fall or winter quarter. Laboratory fee, $5.00.* Professor Coker; Assistants.

42a. DEVELOPMENT OF ANIMALS. (3). Prerequisite, Zoölogy 41. Optional accompanying course, Zoölogy 42b. Both 42a and 42c may not be taken for credit.

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* For A.B. with major in Zoölogy, there are required six courses in Zoölogy of the level of 41 or higher, or five in Zoölogy with Botany 41. Six courses should be taken in other Departments of the Division of the Natural Sciences including two courses in Chemistry and two courses in Physics, if these have not been taken in the General College. Six courses should be in departments outside the Division of the Natural Sciences. (But see also note on page 53). At least three courses should be taken in one Department other than Zoölogy either within or without the Division.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 67.

Basis facts and theories of individual development, heredity, and evolution. Sophomore, junior, and senior elective. *Three hours a week, spring quarter.* Professor Wilson.

42b. INVERTEBRATE ZOÖLOGY. (3). Prerequisite, Zoölogy 41. Optional accompanying course: Zoölogy 42a or 42c.

Study of invertebrate animals as examples of the varied forms of life and as concrete illustrations of the principles of biology. Field trips are made to observe and collect animals in nature. Sophomore, junior, and senior elective. *One lecture and four laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professors Coker, Costello; Assistants.

42c. PRINCIPLES OF ANIMAL BIOLOGY. (3). Prerequisite, Zoölogy 41. Required accompanying course, Zoölogy 42b. Both 42a and 42c may not be taken for credit.

Introduction to invertebrate zoölogy and to development, heredity, and evolution. Sophomore, junior, and senior elective. *Three hours a week, spring quarter.* Professors Coker, Costello.

## Courses for Graduates and Advanced Undergraduates

103. COMPARATIVE ANATOMY OF VERTEBRATES. (5). Prerequisite, Zoölogy 41 and 42ac or 42bc.

Dissection of types especially amphioxus, petromyzon, fish, fowl, rabbit. Laboratory work with occasional lectures. *Ten laboratory hours a week, fall quarter. Laboratory fee, $7.50.* Professor Beers.

104. COMPARATIVE EMBRYOLOGY OF VERTEBRATES. (5). Prerequisite, Zoölogy 41 and 42ab or 42bc.

Maturation and fertilization phenomena in some invertebrate types; segmentation and formation of germ layers in frog and teleost fish; germ layers and development of characteristic vertebrate organs in chick; essentials of microscopic technique. Laboratory work with occasional lectures. *Ten laboratory hours a week, winter quarter. Laboratory fee, $5.00.* Professor Beers.

105. COMPARATIVE HISTOLOGY OF VERTEBRATES. (5). Prerequisite, Zoölogy 104.

Microscopic preparations of selected tissues and organs are made from the fresh animal and studied with the help of texts and original papers. Laboratory work with assigned readings and seminar reports. *Ten laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Beers.

106-107-108. MORPHOLOGY AND CLASSIFICATION OF THE INVERTEBRATES. (15). Prerequisite, Zoölogy 41 and 42ac or 42bc.

Dissection and microscopic study of types of the chief orders, with some consideration of life histories; systematic diagnosis. Basic course for all advanced work in Zoölogy. Laboratory work with occasional lectures. *Ten laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Professor Wilson.

109. INTRODUCTION TO HYDROBIOLOGY. (5). Prerequisite, Zoölogy 41 and 42ab or 42bc.

A study of animal life in water, with special reference to the relation of animals to each other and to their environments. Field and laboratory work, lectures, reading of special papers, discussions. *Ten laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Coker.

110. PARASITOLOGY (MEDICAL ZOÖLOGY). (5). Prerequisite, Zoölogy 41 and 42ab or 42bc.

A consideration of the structure, classification, and life histories of the protozoa and worms of medical importance and of the arthropods which either cause disease directly or which transmit the bacteria, protozoa, and worms of disease. *Lectures and demonstrations, five hours a week, winter quarter.* Professor Beers.

# THE UNIVERSITY OF NORTH CAROLINA

## *THE DEPARTMENT OF DRAMATIC ART

Professors: F. H. Koch, Paul Green.
Assistant Professor: Samuel Selden.
Instructor: H. E. Davis.
In Extension, Instructor: J. W. Parker.

Admission to the Department of Dramatic Art presupposes the completion of the work of the General College in this institution or of equivalent work done elsewhere.

The courses in the Department of Dramatic Art are designed to give the student a comprehensive knowledge of the literature of the drama and intensive training in all phases of theatre work, from the writing of the play to the completed presentation before an audience.

Intensive study and research in all phases of dramatic art are made effective through introductory and advanced lecture courses, the seminar, and supervised practice work in theatre technique. The library resources of the student of dramatic literature and history of the theatre include a large and constantly increasing collection of critical and technical works, and plays of all periods. Of special interest to students of the American drama is the Archibald Henderson Collection of nearly two thousand volumes and the recently acquired Roland Holt Theatre Collection of books, playbills, scrapbooks, photographs, and press reviews—a chronicle of the New York stage from 1881 to 1931. A Dramatic Museum, established this year, provides for the Holt Collection and other interesting objects.

A quarterly journal, *The Carolina Play-Book,* now in its ninth volume, serves as a record of the growth of native American drama. Four volumes of *Carolina Folk-Plays* written by students in the University courses in playwriting have already been published, and a fifth volume, *American Folk-Plays,* is now in preparation.

Practical training for the student of playwriting, acting, directing, and technical work is provided by the production unit of the Department of Dramatic Art, The Carolina Playmakers. The Playmakers Theatre building and Scene Shop furnish ample opportunity for the student to test theory with practice, in both experimental and public performances.

### Requirements for Advanced Degrees

Candidates for the Master of Arts degree in the Department of Dramatic Art must have completed, before admission to candidacy, the undergraduate major in Dramatic Art at the University of North Carolina, or its equivalent. The candidate must take nine "courses," six of which will be considered the

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* Requirements for an Undergraduate with a Major in Dramatic Art.
*A minimum of eighteen "courses" distributed as follows*:
Three or four "courses" in Play Writing: (155, 156, 157) and Theatre Arts: (61, 62, 63, 64, 65, 66).
Three "courses" in Dramatic Literature: Shakespeare (50), Nineteenth Century Drama (149), History of the Theatre (160), Comparative Drama (161), Modern Drama (162).
One "course" in Fundamentals of Stage Speech (67).
Four to eight "courses" in allied departments of the Division of the Humanities to be taken after conference with the Head of the Department.
Four to seven "courses" from other divisions.

major and three the minor. The six "courses" in the major must be taken in the Department of Dramatic Art in accordance with the following plan: three "courses" in play writing (155, 156, 157), or one "course" in play writing, one "course" in Play Direction, Advanced, (201), and one "course" in Staging Methods (202); one "course" in Nineteenth Century Drama (149), or History of the Theatre (160), or Comparative Drama (161), or Modern Drama (162); one Dramatic Seminar (301); and a thesis. The student may satisfy the thesis requirement in either of the following ways: (1) offering an original full-length play, acceptably presented; (2) writing a thesis in the field of drama, theatrical history, or theatre arts.

## Courses for Undergraduates

50. SHAKESPEARE. (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies and histories will be studied. *Five hours a week, fall quarter.* Professor Koch.

61. ACTING. (5).

Training in the techniques of acting. *Five hours class work a week, fall quarter. Fee for materials, $2.00.* Professor Selden; Mr. Davis.

*Registration in Dramatic Art 62 and 63 is limited. Before registering for these courses, students must secure the permission of Professor Selden.*

62. REHEARSAL AND PERFORMANCE. (5)

The theory and practice of ensemble acting from the point of view of both the actor and the director. *Five hours class work a week, winter quarter. Fee for materials, $2.00.* Professor Selden; Mr. Davis.

63. PLAY DIRECTION. (5). Prerequisite, Dramatic Art 61 or 62.

The theory and practice of play directing. *Two hours lecture and six hours practical work a week, spring quarter. Fee for materials, $2.00.* Professor Selden; Mr. Davis.

64. SCENERY CONSTRUCTION AND PAINTING. (5).

Elementary theory and practice in the construction and painting of scenery for the stage. *Two hours lecture and six hours laboratory a week, fall quarter. Fee for materials, $2.00.* Mr. Davis.

65. STAGE LIGHTING. (5).

Elementary theory and practice in stage lighting, including the choice of equipment and its control in the theatre. *Two hours lecture and six hours laboratory work a week, winter quarter. Fee for materials, $2.00.* Mr. Davis.

66. STAGE DESIGN. (5).

The history of and elementary theory and practice in the designing of scenery for the stage, through the preliminary sketch, the model, and the working drawings. A considerable amount of simple architectural drafting will be required. *Two hours lecture and six hours laboratory work a week, spring quarter. Fee for materials, $2.00.* Professor Selden; Mr. Davis.

67. FUNDAMENTALS OF STAGE SPEECH. (5).

An intensive study of the technique of speech for actors and directors. Training is made specific to individual needs. *Five hours a week, fall quarter.* Professor McKie (of The Department of English).

## Courses for Graduates and Advanced Undergraduates

149. NINETEENTH CENTURY DRAMA. (5).

A study of representative English and American plays in the nineteenth century. *Five hours a week, spring quarter.* Professor Koch. (Not offered in 1936-1937).

*The following three courses in play writing (155, 156, 157) should be taken consecutively. If it is not practicable to do this, however, the student may, with the consent of the instructor, take any one of the three courses offered. Under exceptional circumstances a student may repeat one or more of the courses for credit. Special permission is necessary for this privilege.*

155. PLAY WRITING. (5).

A practical course in play writing and experimental production. In all three of the playwriting courses emphasis is placed on the native tradition and present-day life of the region with which the student is most familiar. The student is expected to direct experimental productions of plays written in the course. The best of these are given public production by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, fall quarter. Fee for experimental production, $2.00.* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

156. PLAY WRITING. (5).

The principles of dramatic construction and practice in the writing and production of one-act plays. Experimental and public productions. *Four hours lecture and two hours practical work a week, winter quarter. Fee for experimental production, $2.00.* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

157. PLAY WRITING. (5).

Practice in writing one-act and full-length plays with experimental and public productions by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, spring quarter. Fee for experimental production, $2.00* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

160. HISTORY OF THE THEATRE. (5).

A course designed to give the student a view of the institution of the theatre in its beginnings and development. The emphasis is on those features of the theatre which are not dealt with in the more literary courses—the changing forms of the theatre building, scenery, lighting, the audience, the actor, the relation of the theatre to social conditions, and the place of the theatre in the history of civilization. *Five hours a week, winter quarter.* Professors Koch, Selden, and others. (Not offered in 1936-1937).

161. COMPARATIVE DRAMA. (5).

A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. *Five hours a week, winter quarter.* Professor Koch.

162. MODERN DRAMA. (5).

A study of representative plays of the modern period, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. *Five hours a week, spring quarter.* Professor Koch.

## Courses Primarily for Graduates

201. PLAY DIRECTING, ADVANCED. (5). Prerequisite, Dramatic Art 61, 62, 63, or equivalent training in acting or directing.

Theory and practice in the training of actors and the preparation of plays for experimental and public performance. *Five hours a week, winter quarter. Fee for materials, $2.00.* Professor Selden.

202. STAGING METHODS. (5). Prerequisite, Dramatic Art 64, 65, or equivalent training in technical practice.

Individual instruction in the designing and planning of stage scenery and lighting, and in theatre engineering. *Five hours a week, spring quarter. Fee for materials, $2.00.* Professor Selden.

301. DRAMATIC SEMINAR. (5).

Bibliography, methodology, and research in dramatic literature, theatrical history and staging methods. Required of all candidates for the A.M. degree. *Five hours a week, fall quarter.* Professors Koch, Coffman (of the Department of English), Selden.

# THE UNIVERSITY OF NORTH CAROLINA

## DEPARTMENT OF FINE ARTS

Assistant Professor: Russell T. Smith

(Supplement to the catalogues of the General College and of the College of Arts and Sciences.)

41. THE HISTORY AND APPRECIATION OF ART. (5).

The study of early Christian art and the art of the middle ages. A lecture course with lantern slides. *Five hours a week, fall quarter.* Professor Smith.

42. THE HISTORY AND APPRECIATION OF ART. (5).

The study of the art of the middle ages leading up to the Renaissance and flowering of the Renaissance. A lecture course with lantern slides. *Five hours a week, winter quarter.* Professor Smith.

43. THE HISTORY AND APPRECIATION OF ART. (5).

The study of art from the Renaissance to the present day. A lecture course with lantern slides. *Five hours a week, spring quarter.* Professor Smith.

44, 45, 46. DRAWING AND PAINTING. (3 or 5).

A general studio course which will entail criticism of representation and design in mediums such as watercolor, oil, pencil, pen, woodcarving, etching, and drypoint. When possible, students will work from nature. *Six to ten studio hours a week, fall, winter, and spring quarters.* Professor Smith.

(Supplement to the Catalogues of the General College and of the College of Arts and Sciences)

# THE UNIVERSITY OF NORTH CAROLINA

## *THE DEPARTMENT OF MUSIC

ANNOUNCEMENTS FOR THE SESSIONS 1936-1937

Chapel Hill, N. C., June 1936

GLEN HAYDON, Ph.D., *Professor of Music.*
A.B., 1918, M.A., 1921 (University of California); Ph.D., 1932 (University of Vienna).

BENJAMIN F. SWALIN, Ph.D., *Associate Professor of Music.*
B.S., 1928 (Teachers College, Columbia University); M.A., 1928 (Columbia University); Ph.D., 1932 (University of Vienna).

JAN PHILIP SCHINHAN, M.A., *Assistant Professor of Music.*
A.B., 1931 (University of California); M. A., 1933 (University of California).

EARL A. SLOCUM, M.M., *Assistant Professor of Music.*
B.M., 1931 (University of Michigan); M.M., 1936 (University of Michigan).

H. GRADY MILLER, B.S., *Instructor in Music.*
B.S., 1935 (Teachers College, Columbia University).

PETER HANSEN, M.M., *Graduate Assistant, Instructor in Piano.*
A.B., 1931 (University of California); M.M., 1935 (Eastman School of Music).

The work in Music is planned to meet the needs of students who choose Music as a major subject and of others who elect Music courses to supplement their programs in other fields. The student electing Music as his chief interest is given a thorough training in the practical, theoretical, and historical aspects of the subject as a part of the liberal arts curriculum for the A.B. degree. Although all students preparing for the major in Music must complete the same basic courses, there is considerable opportunity within the major for further specialization, according to interest and ability, in performance, theory, or composition. A special curriculum is planned for students desiring to prepare for positions as teachers and directors of high school bands and orchestras. Those students who plan to teach in public high schools should read the footnote at the bottom of page 67 of the catalogue issue of the College of Arts and Sciences.

### Course Leading to the A.B. Degree With Music as the Major

Students who take Music as the major must modify the regular program for the first two years in order to begin Music in their first year. The following is an outline of the curriculum during the four years. Certain minor

*The undergraduate major in Music consists of from thirty-six to forty-five quarter hours beyond the Freshman-Sophomore requirements and must include Music 61-62-63, 74-75-76, and 101-102-103 or 124-125-126. Attention is called to the special requirements in applied music. See page 5.

deviations in the particular courses may be made, especially in the junior and senior years, to meet the specific needs of the individual student.

## BACHELOR OF ARTS
## with
## MAJOR IN MUSIC

### *Freshman Year*

| Required: | *Credits* |
|---|---|
| English 1-2-3 | 9 Quar. Hrs. |
| Hygiene | 3 |
| Music 4-5-6 | 9 |
| Music 14-15-16 | 9 |
| Music A-I (Applied Music one or more subjects) | 1-4 |
| **Choose one:** | |
| Mathematics 1-2-3 | 9 |
| *Greek 11-12-13 | |
| *Latin 11-12-13 | |
| **Choose one:** | |
| *French 11-12-13 | 9 |
| *German 11-12-13 | |
| *Greek 11-12-13 | |
| *Latin 11-12-13 | |
| *Spanish 11-12-13 | |

### *Sophomore Year*

| Required: | *Credits* |
|---|---|
| English 21-22-23 | 9 Quar. Hrs. |
| For. Lang. 21-22-23 (continuing the one chosen in the first year) | 9 |
| Music 24-25-26 | 9 |
| Music 44-45-46 | 9 |
| Music A-I | 1-4 |
| **Choose one:** | |
| Biology 1-2-3 | 12 |
| Chemistry 1-2-3 | |
| Physics 1-2-3 | |
| Geology 11-12-13 | |

### *Junior Year*

| Required: | |
|---|---|
| Music 61-62-63 | 9 |
| Music 74-75-76 | 9 |
| Music A-I | 1-6 |
| Elective | 5-0 |
| **Choose one:** | |
| Social Science 1-2-3 | 9 |
| Economics 21-22-23 | |
| History 44-45-46 | |
| Philosophy 21-22-23 | |
| Philosophy 24-25-26 | |
| Sociology 21-22-23 | |
| Education 31, 71, (99) | |
| **Choose one:** | |
| Botany 41 and Zoology 41 | 12 |
| Botany 41 and 43 | |
| Chemistry 1-2-3 or 4-5 or 31-41 | |
| Geology 11-12-13 | |
| Physics 21-22-23 | |
| Mathematics 21-22-23 | |
| Psychology 21-22-23 | |
| Zoology 41 and 42 | |

### *Senior Year*

| Required: | |
|---|---|
| Music A-I | 1-8 |
| **Choose one:** | |
| Music 101-102-103 | 9 |
| Music 124-125-126 | |
| **Choose one:** | |
| Economics 21-22-23 | 9 |
| Political Science 31-32-33 | |
| History 44-45-46 | |
| Philosophy 21-22-23 | |
| Philosophy 24-25-26 | |
| Sociology 21-22-23 | |
| Education 31, 71 | |
| Electives | 26-19 |

*Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.

## Requirements for Advanced Degrees

Candidates for advanced degrees should consult the catalogue of the Graduate School for details concerning the requirements.

## Courses for Undergraduates

4-5-6. NOTATION, SIGHT-SINGING, AND DICTATION. (9).

A course in the rudiments of musical symbols with practice in reading and writing scales, intervals, melodies, and elementary harmonic materials. No prerequisite work nor previous training is necessary for Music 4, but previous experience will obviously be of great value to the student. *One lecture and four laboratory hours a week, fall, winter, and spring quarters.* Mr. Miller.

14-15-16. HARMONY. (9). Prerequisite or corequsite, Music 4-5-6.

By special permission 4-5-6 may be taken concurrently. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

24-25-26. THE HISTORY OF MUSIC. (9). Sophomore requirement for those who will have music as a major.

This general course in the history of music is divided into three parts any one of which may be taken separately: (1) the period from antiquity to the end of the sixteenth century; (2) the seventeenth and eighteenth centuries; (3) from the Romantic period to the present day. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

44-45-46. ADVANCED HARMONY. (9). Prerequisite, Music 14-15-16. Sophomore requirement for those who will have music as a major.

*Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

54. INSTRUMENTAL MUSIC OF THE CLASSICAL PERIOD. (5).

Representative compositions by Purcell, Bach, Handel, Mozart, Haydn, Beethoven, and others will be used as a basis for the study of typical forms and styles of instrumental music from the viewpoint of the listener. The course is illustrated by phonographic recordings and actual performances of works for orchestras, chamber music combinations, and pianoforte. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of a major. *Five hours a week, fall quarter.* Professor Swalin.

55. INSTRUMENTAL MUSIC OF THE ROMANTIC AND MODERN PERIODS. (5).

Similar to course 54 but dealing with the instrumental compositions of the Romantic and Modern composers. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of the major. *Five hours a week, winter quarter.* Professor Swalin.

56. TYPICAL FORMS AND STYLES OF VOCAL MUSIC. (5).

Similar to Music 54, this course will be devoted to the study of such vocal music as the madrigal, motet, art song, the opera, and oratorio. Open to juniors, seniors, and graduates, without prerequisite. Will not be accepted as part of the major. *Five hours a week, fall quarter.* Professor Swalin.

61-62-63. MODAL COUNTERPOINT IN THE 16TH. CENTURY STYLE. (9). Prerequisite, Music 14-15-16.

Study and practice of the contrapuntal technique of the 16th. century; the writing of simple motets. *Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

71-72-73. INSTRUMENTATION, ORCHESTRATION, AND ELEMENTARY CONDUCTING. (9).

A course in the study of the principles and practice of instrumentation for orchestra and band, elementary score reading, and conducting. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

74-75-76. ANALYSIS AND COMPOSITION IN THE SMALLER FORMS. (9).

*Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

## Courses for Graduates and Advanced Undergraduates

101-102-103. MUSICOLOGY. (9). Prerequisite, a reading knowledge of one or more of the important foreign languages, a fair knowledge of musical theory, and some skill in practical applied music.

A study of the problems and methods in the various fields, historical and systematic, of musical research. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

124. MUSICAL IMPRESSIONISM. (3). Prerequisite, Music 24-25-26 and 44-45-46.

A critical analysis of representative works of composers of the impressionistic movement in music. An effort will be made to correlate the movement in music with analogous developments in the other arts. *Three hours a week, fall quarter.* Professor Swalin.

125. MUSICAL EXPRESSIONISM. (3). Prerequisite, Music 24-25-26 and 44-45-46.

The study of certain twentieth century tendencies in musical composition. *Three hours a week, winter quarter.* Professor Swalin.

126. MODERN FRENCH COMPOSERS. (3). Prerequisite, Music 24-25-26 and 44-45-46.

The French composers Franck, Fauré, Chausson, Massenet, D'Indy, and Saint-Saëns. *Three hours a week, spring quarter.* Professor Swalin.

161-162-163. FREE COUNTERPOINT, CANON AND FUGUE. (9). Prerequisite, Music 61-62-63.

A study of contrapuntal procedure with particular reference to the style of Bach. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

174-175-176. ANALYSIS AND COMPOSITION IN THE LARGER FORMS. (9). Prerequisite, Music 74-75-76.

*Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

## Courses Primarily for Graduates

201. SPECIAL STUDIES. (To be arranged).

The Department is ready to assist and advise competent graduate students who may propose plans for either research or creative work which meet with its approval. Hours and credit to be arranged. Professor Haydon.

301-302-303. SEMINAR: MUSICOLOGY. (9).

Special topics or fields of study will be selected for each quarter after consultation with the class. *Three hours a week* (to be arranged), *fall, winter, and spring quarters.* Professor Haydon.

## APPLIED MUSIC

The following courses in applied music are open to students in any department of the University having the necessary technical equipment. The work in applied music is regarded not merely as technical training in performance, but also as a study of the standard literature for the particular instrument or ensemble group. Credit in general will be given on the basis of one quarter hour credit a year in the first and second years; two quarter hours credit a year in the third and fourth years. For those whose major is not music a total credit not to exceed ten quarter hours may be counted as electives in the A.B. curriculum. Those whose major is music must offer at least ten quarter hours in applied music and may offer a total not to exceed twenty-five quarter hours in this field, of which not more than ten may be in ensemble courses. All students with majors in music, unless given special permission by the Head of the Department, must continue individual instruction in applied music throughout the four years. Students desiring to do their applied music in the general instrumental course will arrange their schedule for the study of the various string and wind instruments in consultation with the Department.

The general prerequisite for entrance into the first year courses is ability to perform music of difficulty rated as grade three for the particular instrument. Students who do not have this prerequisite will repeat the preparatory course without credit until they qualify for the freshman course. The candidate for the A.B. degree with a major in music must complete as a minimum the freshman course in his chosen field of applied music. Students electing some other instrument than piano for their work in applied music must demonstrate sufficient pianistic ability to enable them to meet the practical requirements of the course to be pursued. This is interpreted to mean the ability to play at sight hymns or compositions of similar difficulty.

Students seeking the A.B. degree with a major in Music will be required to participate in the musical organizations of the Department, and those in the advanced applied music course must take part in recitals as prescribed by the Department.

### Fees

Fees for individual instruction are: $18.00 a quarter for one lesson a week; $36.00 a quarter for two lessons a week. The fees for class instruction vary from $3.50 to $10.00 a quarter according to the number of lessons a week. Practice rooms and periods are assigned at the Music Department Office. Fee for one hour daily practice period (room with piano), $3.00 a quarter; fee for two hours daily practice, $5.00 a quarter. Other fees in proportion. Fee for six hours practice a week on Reuter four manual organ, $15.00 a quarter. All fees for applied music and practice must be paid at the Music Department Office.

### Individual Instruction

A. PREPARATORY ORGAN. No Credit.

The aim of this course is to give the student the preliminary training on a keyboard instrument required for entrance into the course 1A. *One or two half-hour lessons and six or twelve hours practice a week, every quarter.* Professor Schinhan.

1A-2A-3A. FIRST YEAR ORGAN. (1 or 2). Prerequisite, ability to play music for a keyboard instrument of the difficulty of Heller, Op. 45, 46, 47; Bach Two-Part Inventions; scales and arpeggios in moderate tempo; simple hymns (at sight). Value, 1 or 2 quarter hours respectively for one or two lessons and six or twelve hours of practice a week throughout the year. Professor Schinhan.

21A-22A-23A. SECOND YEAR ORGAN. (1 or 2). Prerequisite, Music 1A-2A-3A. Value, hours, and fee as in 1A-2A-3A. Professor Schinhan.

51A-52A-53A. THIRD YEAR ORGAN. (2 or 4). Prerequisite, Music 21A-22A-23A. Value, 2 or 4 quarter hours respectively for one or two lessons and six or twelve hours practice a week throughout the year. Professor Schinhan.

81A-82A-83A. FOURTH YEAR ORGAN. (2 or 4). Prerequisite, Music 41A-42A-43A. Value, hours, and fee as in third year organ. Professor Schinhan.

Similar numbering and description with regard to value, hours, fees, and prerequisite apply to each of the courses B, C, D, and E.

B. PIANO. Professor Schinhan, Mr. Hansen.

C. VOICE. Mr. Miller.

D. VIOLIN. Professor Swalin.

E. FLUTE, or other band or orchestral instrument. Professor Slocum.

## Class Instruction*

For students desiring to complete the general piano requirements, for those in the general instrumental course, and for those wishing special training in voice, class instruction will be offered so far as practicable. Applications for admission to any of these classes should be made at the office of the Department of Music as soon after registration as possible. Hours to be arranged.

## Ensemble Groups

1F-2F-3F. FIRST YEAR BAND, (1 for year). Prerequisite, approval of instructor based upon a "try-out" given at the beginning of each quarter.
*A minimum of two hours a week throughout the year.* Professor Slocum.

21F-22F-23F. SECOND YEAR BAND. (1 for year).
Hours and value as in preceding course. Professor Slocum.

51F-52F-53F. THIRD YEAR BAND. (2 a year).
*A minimum of two hours a week throughout the year.* Professor Slocum.

81F-82F-83F. FOURTH YEAR BAND. (2 a year).
Hours and value as in the preceding course. Professor Slocum.
Similar numbering, prerequisites, value, and hours apply to each of the following courses in applied music:

1G. ORCHESTRA. Professor Swalin.

1H. GLEE CLUB. Mr. Miller.

1I. PIANO ENSEMBLE, OR OTHER INSTRUMENTAL ENSEMBLE.

Professors Slocum, Swalin; Mr. Hansen.

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*Although no credit toward the A.B. degree is allowed for this work, the State Department of Education will allow a certain amount of credit in connection with the requirements for the teaching credential in Music.

(Supplement to the Catalogue of the College of Arts and Sciences.)

# THE UNIVERSITY OF NORTH CAROLINA

## PHYSICAL EDUCATION AND ATHLETICS

The work is under the joint control of the Department of Education and the Athletic Council.

For the Department of Education.....M. R. Trabue
For the Athletic Council.....R. A. Fetzer

## DEPARTMENTAL TEACHING STAFF

Oliver K. Cornwell, M.A., *Professor.*
R. B. Lawson, M.D., *Associate Professor.*
W. F. Lange, M.A., *Associate Professor.*
F. H. Siewert, M.A., *Assistant Professor.*
Herman Schnell, A.B., *Instructor.*
M. Z. Ronman, A.B., *Instructor.*

## TECHNICAL ASSISTANTS IN SPORTS

R. A. Fetzer and M. D. Ranson in Track and Field Sports.
R. B. Wolf, W. F. Lange, and John Vaught in Football.
W. D. Skidmore and G. E. Shepard in Basketball.
Bunn Hearn in Baseball.
M. Z. Ronman in Boxing.
P. H. Quinlan in Wrestling and Conditioning.
J. F. Kenfield in Tennis.
C. P. Erickson in Golf.
Floyd Siewert and Herman Schnell in Intramural Athletics and games of low organization.

## PURPOSE

The purpose of the work in Physical Education and Athletics can be stated as follows: (1) To furnish to each student all the information about himself which we can from a careful physical examination. (2) To teach him the elements of personal hygiene and public health. (3) To give special attention by way of corrective exercises to all students with physical handicaps. (4) To teach outdoor sports and leisure time recreations to all students in line with their capacities and interests. (5) To provide the necessary training for teachers in this field and thus help to meet the need in North Carolina for knowledge about individual and public health and to promote widespread participation in wholesome recreation.

PHYSICAL EDUCATION 51. PRINCIPLES OF PHYSICAL EDUCATION. (5).

A study is made in this course of the bases for physical education in the present organization of society; the relations of physical education to general education practice; standards for judging physical education practice; and the psychological, sociological, and hygienic guides to be used in the selection of materials and methods. *Five hours a week, fall quarter.* Professor Cornwell.

PHYSICAL EDUCATION 51a. Laboratory work of six hours weekly is required in the coaching of track and field events. This course will present the coaching of standard track and field events for men. In addition to techniques and procedures for development of individual performers, attention is given to placement of men in a team for effective results, and other aspects of team play and coöperation. Mr. Fetzer, Mr. Ranson, Assistants.

PHYSICAL EDUCATION 52. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. (5).

This course deals with problems and procedures in physical education, including classification of students, organization of program, class schedules, teaching load, equipment, records, administration of a gymnasium, and other pertinent materials. *Five hours a week, winter quarter.* Professor Cornwell.

PHYSICAL EDUCATION 52a. Laboratory work of six hours weekly is required in the coaching of football. This will deal with the game from the point of view of the coach, presenting fundamental training, plays, signals, offensive and defensive plans, tackling, blocking, interference, punting, drop kicking, and place kicking. Strategy in play, the technique of formations, the value and defects in various shifts, and other essentials of play will be presented. Mr. Wolf, Assistants.

PHYSICAL EDUCATION 53. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. (5).

This course is designed to acquaint students with various tests and measurements in the fields of health and physical education. Special attention is given to test construction, scoring, and methods of using results. Various tests now in use will be evaluated. *Five hours a week, spring quarter.* Professor Cornwell.

PHYSICAL EDUCATION 53a. Laboratory work of six hours weekly is required in the coaching of basketball. This course will present fundamentals of coaching in terms of shooting, passing, dribbling, footwork, and guarding. In addition, form and technique for individual positions, selecting and placing of men, offensive and defensive formations, and various styles of team play. Mr. Shepard, Mr. Skidmore, Assistants.

PHYSICAL EDUCATION 61. HEALTH EDUCATION. (5).

This course presents personal and general hygiene as a means for the improvement of living. A study of the problems of living as they involve the health of the adult. Problems of the adjustment of the individual to general conditions of rural and urban life. Various aspects of public school health teaching receive consideration. *Five hours a week, fall quarter.* Professor Cornwell.

PHYSICAL EDUCATION 61a. Laboratory work of six hours weekly is required in the coaching of baseball. This course will be devoted to defensive styles of play for different situations in the game, team play, individual play in different positions, the handling of pitchers, signals, batting, fielding, sliding, base-running, and other technical and strategical procedures in play. Mr. Hearn, Assistants.

Physical Education 62. HEALTH EDUCATION. (5).

This course includes a general survey of principles of sanitary science and their application to water, milk, and food, the disposal of sewage and garbage, ventilation and school, home and community health problems, including child and adult hygiene. *Five hours a week, winter quarter.* Professor Cornwell.

Physical Education 62a. Laboratory work of six hours is required in physical education games of low organization. The object of this course is to develop skill in and familiarity with a wide variety of physical education activities suitable for schools and recreation centers. Mass athletics, marching, tumbling, and stunts, volley ball, hand ball, and many other activities adaptable to groups differing in age and skill will be offered. Mr. Siewert, Mr. Schnell, Assistants.

Physical Education 63. HEALTH EDUCATION. (5).

This course presents methods and materials for the teaching of health and the handling of school health problems. How to teach and what to offer in health classes. Discussion of the methods and subject matter used in presenting hygiene to students. Includes a study of the opportunities for integration of health materials with other subjects of the organized curriculum. *Five hours a week, spring quarter.* Professor Cornwell.

Physical Education 63a. Laboratory work of six hours weekly is required in the coaching of boxing and wrestling. This course is designed to acquaint students with the various techniques in both offensive and defensive boxing and wrestling. Methods of teaching the various skills to both individuals and groups will be considered. Mr. Ronman, Mr. Quinlan, Assistants.

Physical Education 71. ANATOMY. (5).

This course is designed to teach the fundamentals of gross anatomy of the human body by means of lectures and demonstrations, using charts, models and drawings. Students are supplied, through the coöperation of the University Medical School, with sets of typical bones from the human body and are permitted to use the anatomy laboratory for practical demonstrations on the human cadaver. Practical observations are made to illustrate the anatomical or common athletic injuries and methods of their treatment. Supplementary lectures are given by members of the Department of Anatomy of the Medical School. *Five hours a week, fall quarter.* Dr. Hedgpeth.

Physical Education 72. PHYSIOLOGY. (5).

Prerequisite, Physical Education 71 or the equivalent of Zoölogy 41 and 42.

A lecture course in elementary physiology, covering the muscular, cardio-respiratory, nervous, gastro-intestinal, and reproductive systems. *Five hours a week, winter quarter.* Dr. Berryhill.

Physical Education 73. INDIVIDUAL PHYSICAL EDUCATION. (5).

Theory and practice in making a physical education program meet the needs of handicapped individuals, fundamental principles in the selection and adaptation of activities in corrective procedures, abnormal conditions that come to the attention of the physical educator, methods of examining and determining individual needs, activity program of both formal and informal character to meet the needs in schools and colleges, will be the problems dealt with in this course. *Five hours a week, with a laboratory requirement, spring quarter.* Dr. Lawson.